

ANNUAL
REPORT

2005

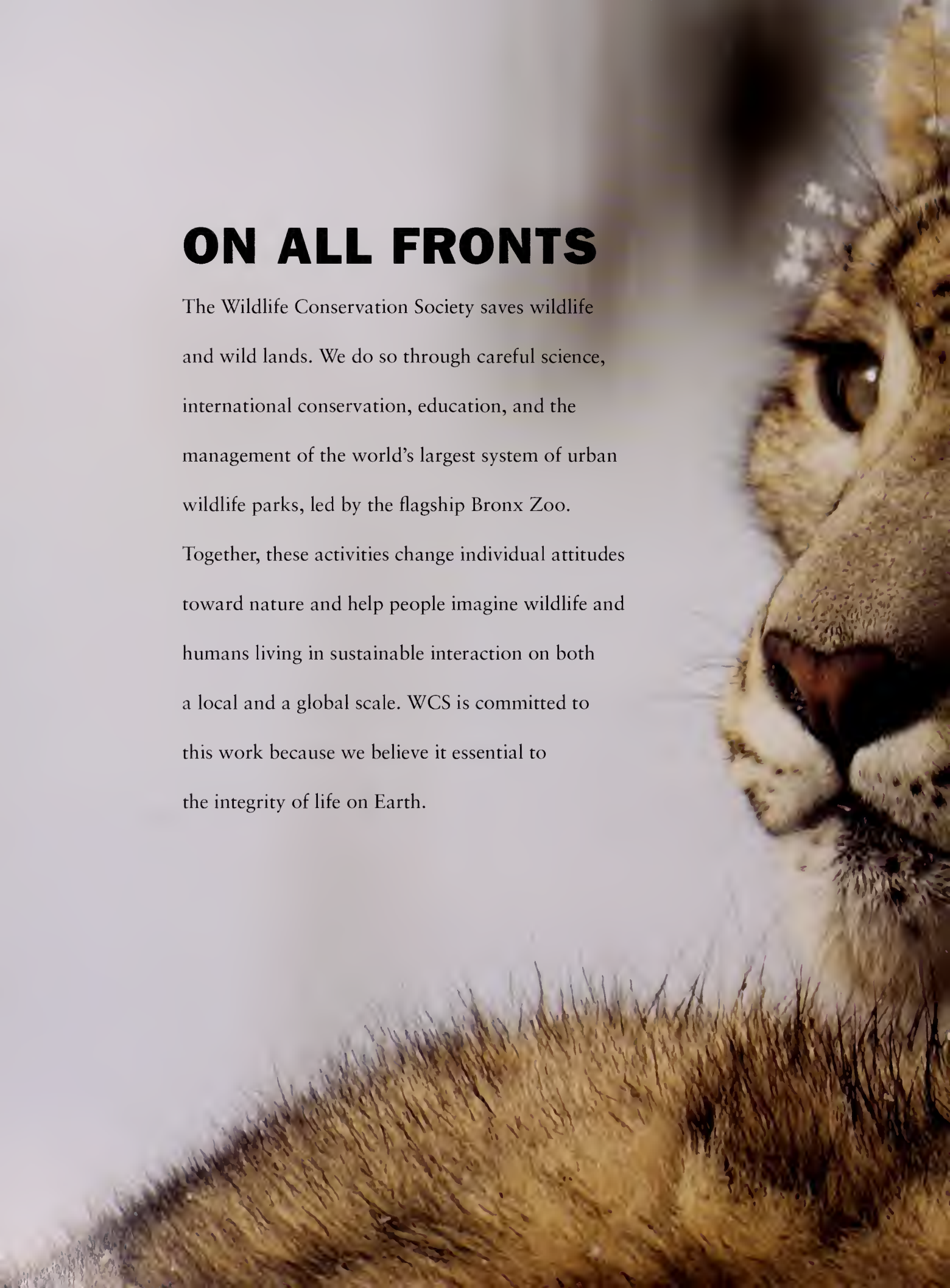


WILDLIFE
CONSERVATION
SOCIETY

ON ALL FRONTS

The Wildlife Conservation Society saves wildlife and wild lands. We do so through careful science, international conservation, education, and the management of the world's largest system of urban wildlife parks, led by the flagship Bronx Zoo.

Together, these activities change individual attitudes toward nature and help people imagine wildlife and humans living in sustainable interaction on both a local and a global scale. WCS is committed to this work because we believe it essential to the integrity of life on Earth.







10 Living Institutions

The Wildlife Conservation Society sets the standard for zoos and aquariums with its one-of-a-kind urban complex of Living Institutions in New York City—the world-famous Bronx Zoo; Central Park, Prospect Park, and Queens Zoos; and the New York Aquarium—as well as the largest and most comprehensive Wildlife Health Sciences department in the world.

26 Living Classrooms

The WCS Education Division's award-winning programs and curricula reach youngsters, teachers, and parents from New York to India.

36 Living Landscapes

WCS field researchers pursue science-based solutions to benefit wildlife and wild places and work to help others fulfill our keenly human role as stewards of the planet.

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Cover: The American bison symbolizes the Wildlife Conservation Society's commitment to save spectacular wildlife and wild lands and to engage the people around the world in its mission. **Inside front cover and page 1:** Born in 2003, Biscuit is the ninety-third snow leopard cub born at the Bronx Zoo. **Left:** An adult chinstrap penguin bonds with its chick at the Central Park Zoo.



Our first annual report appeared in 1897—and there was much to tell. Two years earlier, the Wildlife Conservation Society (WCS) was officially incorporated, after New York City leaders and lovers of wildlife articulated a bold vision: New York would become a global center for the study and conservation of nature's wonders. In just a few years, WCS created the world-famous Bronx Zoo, established the first zoo education program, hired the first zoo veterinarian, and dispatched the first field scientist to study in Alaska. The architects of WCS might be astonished by the realization of their vision. Today, more than 1,200 WCS staff in New York and another 3,000 around the world are working to save the “last of the wild.”

This year—despite great environmental damage by natural forces such as hurricanes and tsunamis, wild habitats overtaken by human development, global climate changes, and introduced exotic species—much positive news has resulted from our efforts. WCS field scientists discovered three new primate species—in Bolivia, Tanzania, and India—as well as a new rodent family in Laos. A census of Grauer's gorillas in war-torn DR Congo found that the population is at least stable, and may be growing. In Russia's Far East, a tiger survey revealed stable numbers, particularly good news in the face of reports that these big cats are disappearing in some of India's tiger reserves.

At the Bronx Zoo, we opened the new Butterfly Garden and Bug Carousel—our one-of-a-kind tribute to the little creatures that help make the world go 'round. Meanwhile, we are transforming the landmark Lion House into

Local, national, and international governments and groups look to WCS for leadership and expertise in the struggle to protect species and preserve resources. We are the “go-to” people for planet Earth and the life it supports.

Madagascar!—an exhibit experience that will introduce visitors to lemurs and other wildlife of this fascinating island, and to our long-term conservation work there.

Our veterinary staff is leading the efforts to better understand and control diseases that pass between animals and humans, such as Ebola, SARS, and avian influenza. In the face of potential pandemics, we are calling for a “One World, One Health” approach to zoonotic diseases.

The talented individuals at WCS accomplish real results by embracing a huge, multifaceted, and well-coordinated effort. This year, Corneille Ewango received the Goldman Environmental Award for risking his life to help protect the Okapi Reserve in DR Congo. Michel Masozera won the National Geographic Society/Buffett Award for Leadership in African Conservation. Alan Rabinowitz received the first George B. Rabb Conservation Award for his work to protect big cats in Asia and South America.

In our work, success does not mean the challenges disappear; they merely change with time and place. Our history and long-term commitment ensure that WCS will continue to make meaningful connections between *all* species and *all* life on planet Earth.

Partners, Friends, and Supporters

BEST FRIENDS

The Wildlife Conservation Society is enormously grateful to the Goldman Sachs Charitable Fund for its extraordinary gift of more than 680,000 acres of land on the Chilean portion of the island of Tierra del Fuego and for its contribution of critical operating and endowment support to complement this remarkable donation. We are honored to be working with such an enlightened partner in the effort to ensure the conservation of this magnificent wilderness. We offer special thanks to Henry M. Paulson, Jr. and the people of Goldman Sachs who have devoted their time, energy, and talent to this project.

We are deeply indebted to Robert W. Wilson for matching grant funds that this year totaled more than \$21 million in support of our global conservation programs. The incentive provided by this challenge match continues to inspire and attract vital new support for our work around the world.

We extend special appreciation to five dedicated members of the WCS family: David T. Schiff, Ward W. Woods, Edith McBean, J. Michael Cline, and Andrew H. Tisch. Each has made a truly outstanding commitment this year that will help ensure the success of WCS's ambitious plans for the future. Their great interest in, and steadfast support of, our mission is inspiring to all of us who have the good fortune to work with them.

We offer heartfelt thanks to The Starr Foundation for providing a leadership grant that lays the groundwork for the creation of the Science Campus at the Bronx Zoo, where we will bring together our broad-based policy and program initiatives in a new Center for Global Conservation and the finest Wildlife Health Center in the world.

WCS field scientists helped to discover and name three new primate species. One of these is the highland mangabey, *Lophocebus kipunji* (right). Tim Davenport, Noah Mpunga, Sophy Machaga, and the team estimate that 500 to 1,000 of the mangabeys live in Tanzania's Southern Highlands, where WCS has been working for several years to survey the wild animals and plants, document the importance of the forest to water catchment, and help the local people implement sound conservation strategies.

WCS is also tremendously grateful for the dedication and generosity of these friends who have each made contributions totaling one million dollars or more this year:

- Bristol-Myers Squibb Company, for its support as principal underwriter of our Animal Enrichment Program.
- The Irwin Family, for exceptional support that will help us meet a broad array of challenges as we look ahead to the future.
- The John D. and Catherine T. MacArthur Foundation, for its long-standing support of our landscape conservation efforts around the world.
- The Gordon and Betty Moore Foundation, for its significant commitment to our work in large landscapes and seascapes in the Amazon, Gabon, and Fiji.
- Katherine T. Ruttenberg, for celebrating the memory of her father by helping to protect our wildlife heritage for future generations, through the establishment of The Derald H. Ruttenberg Memorial Fund for Conservation.
- Barbara and Donald Zucker, for their tremendous support of our Living Institutions through their gift to the new Bug Carousel at the Bronx Zoo.

This year, we welcome Mr. and Mrs. Bradley L. Goldberg and Mr. and Mrs. Thomas Unterberg to our circle of Best Friends—those whose cumulative philanthropy to WCS exceeds one million dollars.





In 1905, the Wildlife Conservation Society began a great conservation quest by joining President Theodore Roosevelt in the creation of the American Bison Society and restoring bison to the Western range with animals from the Bronx Zoo herd. These actions also firmly established the link between our Living Institutions in New York and the future of species in the wild, a purpose from which we have never wavered.

Beginning with the American bison and its prairie lands, WCS has focused on saving spectacular wildlife and landscapes—among them, great apes and tropical forests, big cats and temperate woodlands, vulnerable birds and mountain perches, giant whales and ocean depths—to ensure conservation worldwide.

As globalization transforms the planet and threats to wildlife accelerate, WCS is making parallel organizational changes. The needs to educate and to satisfy the cultural appetites of our guests constantly challenge our teachers and exhibit specialists. Animal well-being has become an expansive concept, thanks in large part to our curators and keepers. Global public health has captured our veterinary concerns, and inspired a vision that connects wildlife health, animal husbandry, and human health. Global climate change as a fact, not a public policy debate, continues to shape our conservation strategies into the future.

The American bison, *Bison bison*, graces the cover of our Annual Report. This icon of the plains symbolizes the American West. It carries the tortured history of natural grandeur and human wastefulness, and so reminds us of our stewardship of the environment. Its value persists for

Yellowstone and the American bison were gateways to conservation in the nineteenth century. Today, they symbolize WCS's commitment to wildlife and to protected areas worldwide.

Native American communities, prairie conservation advocates, national park managers, and conservationists all over North America. The bison delights anyone who sees it in the wild, mesmerizing the millions of visitors to Yellowstone and other parks.

Now, the American bison—and the wildlife we protect around the world—need us to change the scale and shape of our work. As we revive the American Bison Society, we are shadowed by the continuing loss of grassland ecosystems worldwide, the elimination of wildlife as a menace to domestic animals and crops, the threats of emerging infectious diseases, the urgent need to take conservation outside the parks, and the realization that global climate change will affect the nature of wildlife habitat—including the bison's prairies—during our lifetimes.

Yellowstone and the American bison were gateways to conservation in the nineteenth century. Today, they symbolize WCS's commitment to wildlife and to protected areas worldwide. Their power to inspire must be matched by action—this time including health, education, landscapes, and a global strategy. The bison on our cover has its gaze fixed on the world.

Partners, Friends, and Supporters

In addition to those named on page 5, we extend special thanks to those donors who generously supported WCS and its mission.

SUPPORT ACROSS WCS

WCS deeply appreciates those donors who have provided significant unrestricted support, allowing us to allocate funds where the need is greatest. We extend our thanks to The Bay and Paul Foundations, the W.E. Flaherty Family Foundation, Enid A. Haupt, the Irwin Family, Katharina Otto-Bernstein, The Howard Phipps Foundation, Josie and Julian Robertson, The Starr Foundation, and Mr. and Mrs. Thomas Unterberg. In addition, WCS is grateful for unrestricted support received from the estates of Elizabeth S. Livingston and Agnes Scholl.

We recognize those philanthropists who during the year provided support for projects and programs both for our zoos and aquarium in New York and our global conservation programs around the world. Our gratitude goes to Mr. and Mrs. J. Michael Cline, Mr. and Mrs. Brian J. Heidtke, the Schiff Family, and Allison and Leonard Stern.

LIVING LANDSCAPES

Our global conservation field programs, as well as our cross-cutting program headquartered in New York, received significant support from many generous donors.

We extend special thanks to Nancy Abraham and Arnold Moss, Mr. and Mrs. Frederick W. Beinecke and The Prospect Hill Foundation, Liz Claiborne/Art Ortenberg Foundation, Conservation International—Critical Ecosystem Partnership Fund, Earth Share, Mr. and Mrs. Gary C. Fink, Flora Family Foundation, Daphne and Thomas Kaplan and the Lillian Jean Kaplan Foundation, National Fish and Wildlife Foundation, National Geographic Society, David & Lucile Packard Foundation, Estate of Frederick D. Petrie, World Wildlife Fund, and one anonymous donor.

Conservation efforts across Africa received vital additional support from Mr. and Mrs. Jeffrey R. Anderson, The Howard G. Buffett Foundation, William B. Lloyd, and Zoo Zürich.

Our Asia programs also benefited from the generosity of Eleanor Briggs, C. Diane Christensen and Jean Pierret, Conservation International—Global Conservation Fund, Homeland Foundation, Inc./E. Lisk Wyckoff, Jr., National Fish and Wildlife Foundation and ExxonMobil Save The Tiger Fund, Trust for Mutual Understanding, and 21st Century Tiger.

The Overbrook Foundation has made generous contributions to our Latin America programs.

Our Marine Program is grateful for significant support from the Stavros S. Niarchos Foundation and the Oak Foundation USA.

The Richard King Mellon Foundation, Shell Exploration & Production Company, and the Wilburforce Foundation provided critical funding for our conservation work in North America.

LIVING INSTITUTIONS

Our Living Institutions are grateful to a number of donors who provided support for our zoos and aquarium in multiple ways, recognizing the need to build state-of-the-art exhibits, to maintain the health and enhance the well-being of our living collections, and to educate the public about the importance of wildlife conservation. We offer special thanks to Eric Goode, the Estate of Ana Luana Martinez, Susan and Jack Rudin, Virginia and Warren Schwerin, Joan O.L. Tweedy, and Mr. and Mrs. Samuel H. Wolcott III.

Our programs in Wildlife Health received vital support from the Estate of Guy Cary, Francis Goellet Foundation, Caroline N. Sidnam, Dr. Judith P. Sulzberger, and Pamela M. Thye, for work in our Living Institutions, as well as the work done internationally through our Field Veterinary Program.

WCS deeply appreciates those donors who have provided support for our exhibits. The Bronx Zoo's *Madagascar!* exhibit received important assistance from The Barker Welfare Foundation, The Bodman Foundation, and Cleveland H. Dodge Foundation, Inc. The Heckscher Foundation for Children provided funding for the new Bug Carousel at the Bronx Zoo. Mitsubishi International Corporation Foundation provided ongoing support for Mitsubishi Riverwalk at the Bronx Zoo.

Our Living Institutions' Animal Enrichment Program received vital funding from Peter R. and Katherine L. Dolan.

The Edward John Noble Foundation continued its support of the St. Catherines Wildlife Survival Center.

WCS's Education Program benefited from the generosity of the Howard Hughes Medical Institute.

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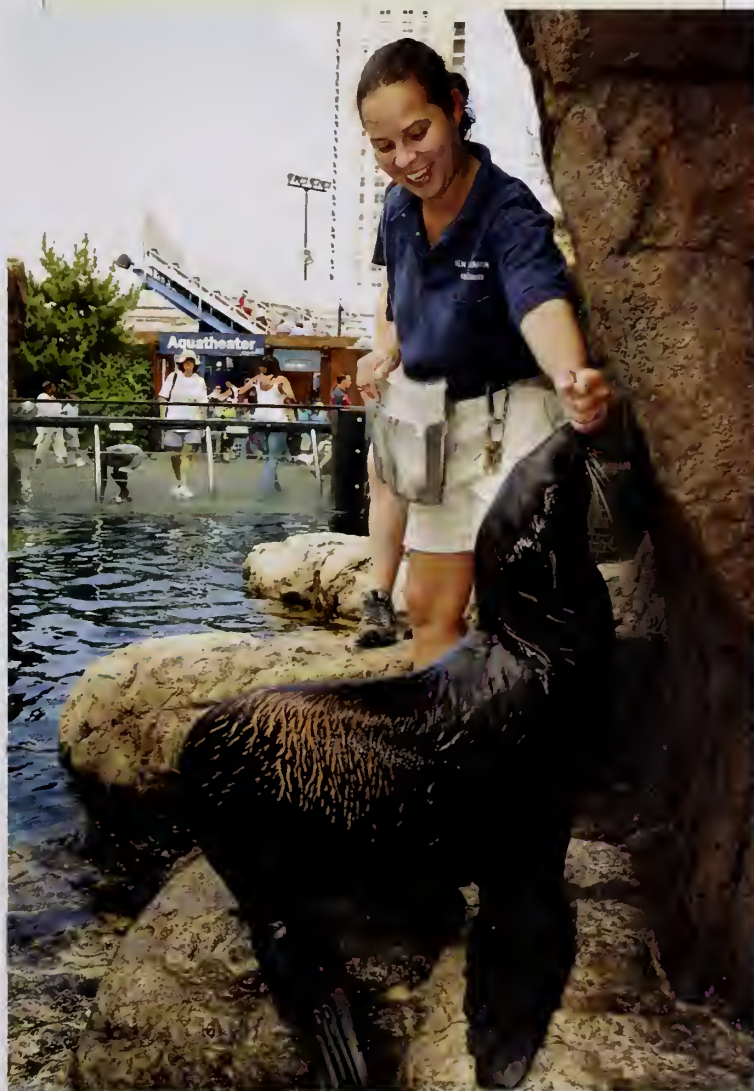
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City Support

WCS is grateful to the City of New York, which provides significant operating funds through the Department of Cultural Affairs and the Department of Parks and Recreation. We thank Mayor Michael R. Bloomberg, City Council Speaker Gifford Miller, Bronx Borough President Adolfo Carrión, Brooklyn Borough President Marty Markowitz, Queens Borough President Helen Marshall, New York City Councilmember Madeline Provenzano, Councilmember Joel Rivera, Majority Leader, Councilmember Domenic M. Recchia, Jr., Chair, Cultural Affairs, Libraries & International Intergroup Relations Committee, Councilmember Margarita Lopez, Councilmember Philip Reed, and the entire New York City Council for their support of capital projects. The elected officials of the City of New York are vital to the public/private partnership on which WCS's service to the people of New York rests.







living
INSTITUTIONS



From the moment the Bronx Zoo opened its doors in 1899, it immediately and irrevocably established itself as a world leader in animal management, scientific inquiry, conservation, innovative exhibit development, and incomparable guest experiences. During the more than 100 years that have followed, the Bronx Zoo's preeminent position has solidified and expanded to include what is today the Wildlife Conservation Society's Living Institutions. Four zoos and an aquarium, spread across New York City, provide a collective opportunity for four million visitors a year to discover and connect to the wonders of wildlife and wild places, and to become inspired to care about conservation and the future of wildlife. Each and every day, the Bronx, Central Park, Queens, and Prospect Park Zoos and the New York Aquarium help to fulfill the WCS mission.

At the Bronx Zoo, the connection between guests and animals is still palpably strong at Tiger Mountain, which won the Best Exhibit Award of the American Zoo and Aquarium Association (AZA). At Tiger Mountain, visitors come within a safe whisker of the world's largest cats, and they can view daily animal enrichment sessions during which our keepers work with the tigers to conduct health checkups.

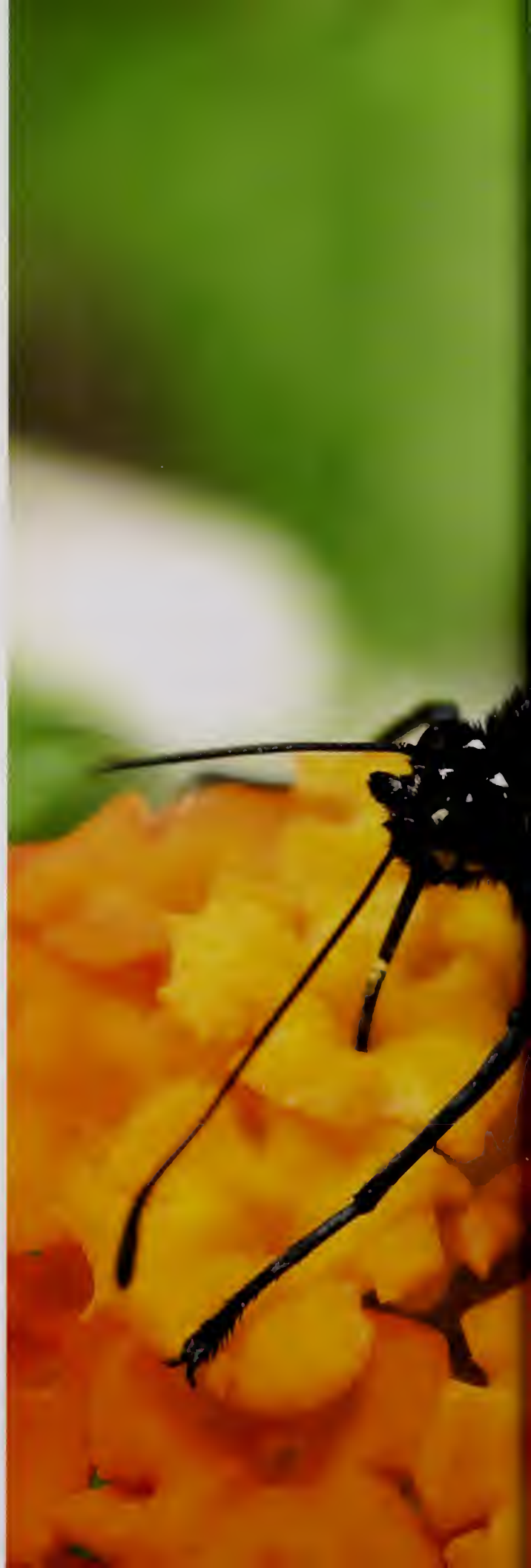
The Bronx Zoo also celebrated the twentieth anniversary of JungleWorld this year. Located in the Wild Asia complex, this revolutionary building set a new

standard for exhibit design and visitor experience. Not only did JungleWorld provide its animals with appropriate naturalistic habitats, but guests were also immersed in Asian jungles as they walked through the 37,000-foot-high building with 55-foot-high ceilings, 50-foot-tall trees, and dense jungle foliage. By requiring visitors to be active participants, JungleWorld forged a new connection between zoo guests and some of the rarest animals in the world. Since JungleWorld opened, there have been more than 300 births and hatchings, most notably among several species of primates. Twenty years later, JungleWorld is still a model for the Living Institutions' mantra: good for animals, zoos, guests, and conservation.



Following in this tradition, the Bronx Zoo's new Butterfly Garden spread its wings in May. At the heart of the nearly one-acre exhibit is a 5,000-square-foot, free-flight greenhouse—a magical “secret garden” that surrounds guests with approximately 1,000 fluttering North American butterflies and moths, colorful plants, classical music, and a pond with shimmering koi. The outdoor space offers elegant landscaping, whimsical sculptures, and interactive elements that connect visitors to butterflies, and explain the important role insects play in keeping nature in balance.

This year, WCS's Living Institutions opened the new Butterfly Garden and Bug Carousel. More than 1,000 delicate butterflies (right, a monarch), whimsical sculptures (above, Exhibit Specialist Carolyn Fuchs with monarch caterpillars), and plants and shrubs create an enchanting outdoor and indoor magical secret garden. The very first of its kind, the Bug Carousel features 30 species of irresistible insects—such as a praying mantis, a ladybird beetle, and a grasshopper. Pages 10-11: Siberian tiger in Tiger Mountain. Page 12: Langur mom and baby in JungleWorld, which celebrated its 20th anniversary this year.







The Bug Carousel, located across from the Butterfly Garden, also opened to enormous acclaim. The world's first bug carousel, it has 64 rides representing 30 species of irresistible insects—such as a praying mantis, a ladybird beetle, and a grasshopper—along with two chariots, one of which shows a dung beetle hard at work.

Leading guests to this “buzzing,” high-energy location, the Zoo Loop extension, with its many benches and plants, is an attractive public pathway from Dancing Crane Plaza to the outdoor giraffe exhibit. Part of the master plan, Zoo Loop is a unifying circulation path that helps orient guests to key exhibits and attractions.

Speaking of giraffes, design has commenced for an African wild dog exhibit adjacent to the Carter Giraffe House. A pack of six brothers and an unrelated pack of four sisters arrived at the zoo in December 2004 from the DeWildt Cheetah and Wildlife Centre in South Africa. While waiting for their permanent habitat, scheduled to open in late spring 2006, the pack produced two litters. To our knowledge, this is only the second time a zoo wild dog pack has ever had more than one litter at the same time. One female took over the care of all 14 pups, which subsequently have been weaned and fully integrated into the pack.

As we move into the future, we continue to preserve our past. *Madagascar!*, in development at the Bronx Zoo, will offer guests a most unusual conservation immersion experience. Visitors will enter the renovated Lion House, originally constructed in 1903, on Astor Court to find themselves in an environment chock-full of surreal, yet realistic, landscapes and curious-looking critters native to the island. *Madagascar!* promises to be an eye-popping, mind-expanding journey with wild animals at center stage. In addition, the landmark Astor Court is being redesigned with new paving, benches, and lighting, as well as restoration of the terracotta balustrade and steps leading to Fountain Circle.

As part of the Bronx Zoo Renaissance on Astor Court, the landmark Lion House (left) is being transformed into *Madagascar!* This exciting new exhibit, scheduled to open in 2007, will introduce visitors to giant Nile crocodiles, lemurs, colorful chameleons, fossas, and other creatures unique to this island country. A new aviary opened outside the Aquatic Birds Building, and is now home to lesser adjutant storks and Elvis, a five-foot-tall goliath heron (opposite, top, with Keeper Maria Maust).

A visit to Astor Court is not complete without a stop at the Sea Lion Pool. This year, keeper presentations were added during the twice-daily feedings. Mammal Department keepers introduce each of the California sea lions, share a wide variety of information about the species, and ask the sea lions to demonstrate crowd-pleasing behaviors that also provide the opportunity for zoo veterinarians to conduct health exams.

The Admissions and Transportation Department added tour guides to the perennially popular Bengali Express, otherwise known as the Wild Asia monorail. The guides focus on the guest experience, sighting wildlife in the 40 acres of habitats and tailoring narratives to reflect the moment. The transfer of the zoo's Mongolian wild horse herd to Wild Asia was an instant hit with visitors. But the *biggest* hit of the year was undoubtedly Alta, a female Indian rhinoceros. Born on December 26, 2004, she weighed around 100 pounds. Rhinos are notoriously difficult to breed; however, the Bronx Zoo has one of the world's most successful Indian rhino breeding programs, and has welcomed eight calves since 1986. Altogether, Wild Asia has become a more immediate and satisfying guest experience.

The Ornithology Department of the Bronx Zoo was the first in the United States to breed lesser adjutant storks in captivity, in 1999. This year, a new aviary for this endangered species was constructed



In Beebe's Footsteps

In the early 1900s, William Beebe, then curator of birds at the Bronx Zoo, spent 17 months in 20 countries studying pheasants across the Far East. Beebe documented his findings with text, illustrations, and photos in his seminal four-volume *A Monograph of the Pheasants* (left). His field research has since appeared in a variety of forms and remains a useful research tool for today's ornithologists, including Central Park Zoo Curator of Animals John Rowden.

Rowden is studying Bulwer's wattled pheasant, a vulnerable species native to Borneo. In addition to the fact that the species is losing its habitat to logging, it does not breed well in captivity. Rowden has made several trips to Sarawak, in Malaysian Borneo, in the hopes of learning how to make zoo environments more conducive to successful breeding. "While tramping through the forests with Cynthia Chin and Levlin Guman of WCS's Malaysia Program, I sometimes wonder if I'm following in the footsteps of Beebe, not just figuratively . . . but literally," Rowden says.





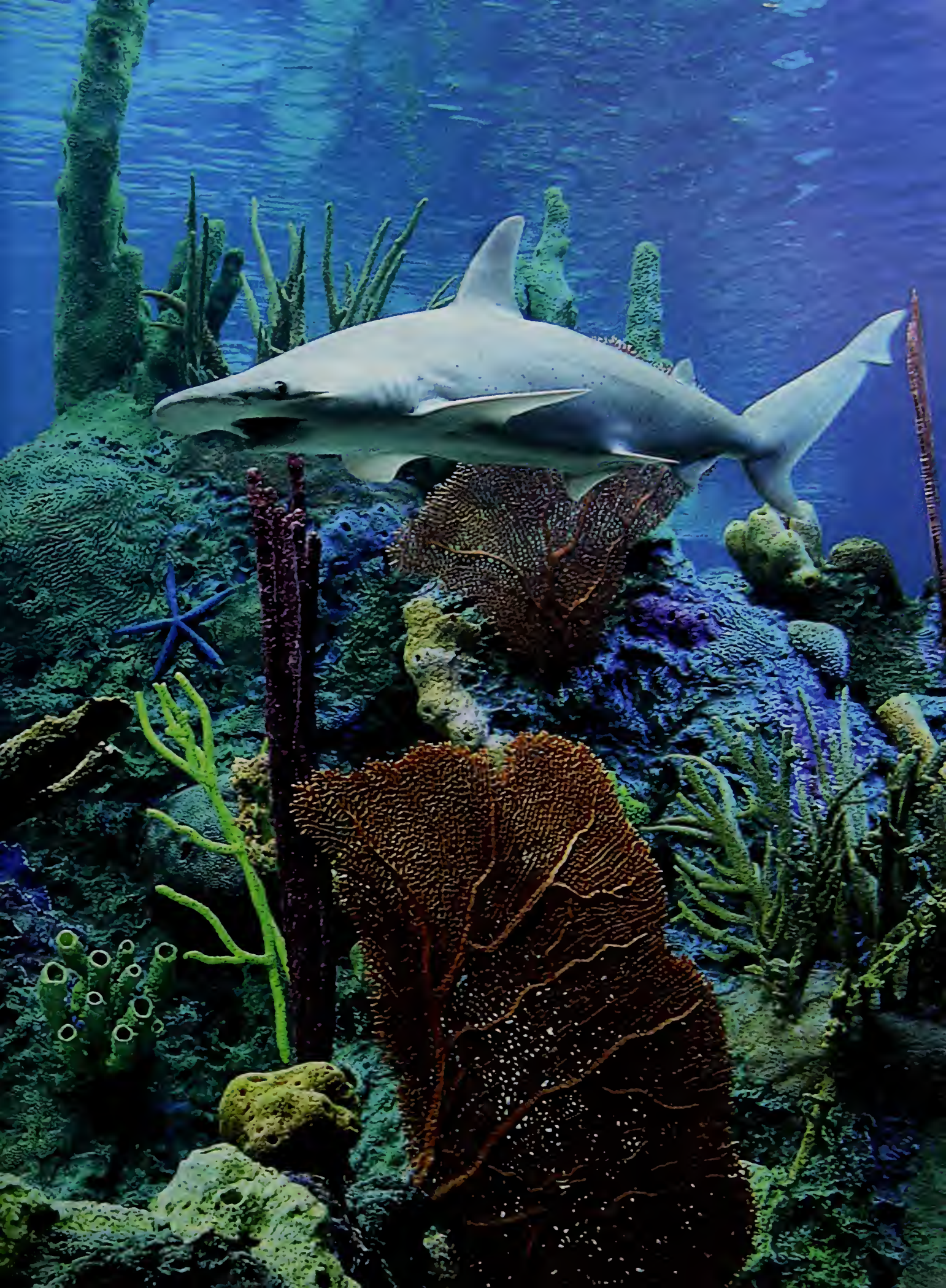
in the marsh between the Aquatic Bird House and Sea Bird Colony. The storks now have large trees for perching, and a stream for wading and hunting fish. Meanwhile, Nancy Clum, Bronx Zoo assistant curator of ornithology, helped census and monitor a flamingo population in the Bahamas. A grant from the WCS Species Survival Fund made her research possible.

The Living Institutions' animal management professionals not only lead the way in the zoo community with animal care standards established at and maintained in each of the WCS facilities, they routinely serve as global resources for protecting endangered species in situ, and work with governments and people around the world. The Bronx Zoo's Herpetology Department led the effort to establish a captive-breeding program for the Kihansi spray toad. A tiny amphibian only three-quarters of an inch long (about the size of a U.S. nickel), the toad once lived in the fine mists of the Kihansi Falls in Tanzania. Due to a hydroelectric project that dammed the Kihansi River and flooded the falls area, the species is now considered extinct in the wild. Captive-breeding efforts, however, have resulted in hundreds of tadpoles born at the Bronx Zoo, and the World of Reptiles is one of only two facilities in the world to house this toad.

Bronx Zoo herpetologists also worked with the WCS Field Veterinary Program and the International Conservation staff on Burmese star and Black Mountain tortoise conservation. In addition, they collaborated with International Conservation staff and the Madagascar government to secure Appendix I status on CITES (the Convention on International Trade in Endangered Species), to help halt the illegal trade in all four endemic species of Malagasy tortoises: spider, radiated, plowshare, and flat-tailed.

At the New York Aquarium, a splashy new exhibit opened, highlighting the marine wonders of Glover's Reef. The reef is a seamount atoll off the coast of Belize, where WCS maintains a marine research station and projects to discover more about

Left: Herpetology Keeper Melissa Mohring holds a baby dwarf caiman in the Bronx Zoo's World of Reptiles. Opposite: In June, the New York Aquarium opened the new Glover's Reef. This exhibit highlights the wildlife and habitats of an atoll along the barrier reef of Belize, in Central America, where WCS has established a marine research station and conducts numerous conservation projects.



coral biology and ecology and ways to diminish the threats to these fragile habitats. Located in the first tank beyond the entrance, which was originally constructed in 1957, the new exhibit immediately immerses visitors in a watery world brimming with tropical fish, sharks, a "wall" inhabited by moray eels, and colorful corals.

The original Bathysphere, piloted during the 1930s to then uncharted ocean depths by WCS's first full-time field scientist William Beebe and inventor Otis Barton, was refurbished and is now on display at the Aquarium. Dynamic graphics tell the story of how these two intrepid explorers plunged in this small diving vessel to a record-setting depth of 3,028 feet in waters off Bermuda.

A new boardwalk entrance, featuring a sculptural kelp and coral forest with sharks and other fish, provides the public with a vibrant gateway to aquatic adventures. And the design phase for a new shark exhibit was launched. This display will highlight the importance of these fish to ocean ecosystems, detail the threats sharks face in the wild, and focus on WCS's work to save them.

Having the world's largest system of urban wildlife parks affords WCS the opportunity to coordinate collection plans and exhibit openings to maximum efficiency and effect. In a planning effort among curators, exhibit designers, and others that began this year, big cats will soon be spotted at all three WCS city zoos. Prospect Park Zoo's



Discovery Trail will highlight the Amur leopard, an AZA Species Survival Plan (SSP) species. The Queens Zoo is designing a jaguar exhibit as the entry point for its new Central and South American corridor. And the Central Park Zoo will add endangered snow leopards to its collection, a species the Bronx Zoo has bred successfully for more than six generations—resulting in more than 90 offspring—in the world's most productive snow leopard captive breeding program.

Central Park Zoo also celebrated National Poetry Month in April with inimitable style, by unveiling a permanent installation of conservation-oriented poetry. Zoo Poet-in-Residence Sandra Alcosser, who was also recently

named Poet Laureate of Montana, worked closely with Central Park Zoo Director Dan Wharton and the Poets House to select poems to be playfully integrated throughout the zoo grounds. This creative use of poetry invites the public to make emotional connections between wild animals, art, and conservation issues.

Thick-billed parrots are now flying at Queens Zoo. The thick-billed parrot was one of two parrot species native to the United States (the other was the Carolina parakeet, which is now extinct). Today, the critically endangered thick-billed parrot has disappeared from the American Southwest and lives only in Mexico. In an innovative exhibit that opened in the spring, Queens Zoo visitors find themselves in a rustic log cabin lookout. This vantage point is immersed in a replication of the species' native pine forests of Mexico's Sierra Madre Mountains. From this lookout, visitors can view our breeding flock of these brightly colored birds.

Colors, bold and otherwise, also burst outdoors at Prospect Park Zoo, to extend the experience of the In Living Color display. Graphic signs invite young visitors to look for native animals that may be using their colors to warn, hide from, or attract one another in a lovely outdoor landscape.

WCS's 30-year program at the St. Catherines Island Wildlife Survival Center concluded this year. The original goals to develop management and husbandry techniques for important wildlife species were met, and contemporary and future conservation objectives are being centralized at WCS's New York City facilities.

From the beginning, the WCS Living Institutions have invested in the education and training of future leaders in the zoological community. A two-year curatorial intern program gives individuals who have just obtained their doctorates an arena in which to apply their research training and learn management skills. David Powell, the Bronx Zoo's Mammal Department curatorial intern, is studying the efficacy of oral administration of canine distemper vaccination to zoo tigers. This study is being undertaken to aid the WCS field veterinarians, who have identified a case of canine distemper in wild Amur tigers. If oral vaccines given to Bronx Zoo tigers cause the appropriate immune response, the WCS vets will have the potential to vaccinate

Left: During the winter, Japanese macaques at the Central Park Zoo—and those living in the wild in the Nagano Mountains—can often be seen sitting in hot springs, just as people enjoy soaking in their hot tubs. In the natural range of these snow monkeys, loss of habitat to agriculture, tree plantations, and human development has forced groups of this northernmost non-human primate into increasingly isolated pockets of temperate forest.

wild tigers (and perhaps other wild carnivores) through medicine-laced food baits, rather than costly and time-consuming capture and inoculation.

In addition, 23 awards were granted to curators and keeper staff across the facilities for research projects, including a study by Bronx Zoo Mammal Department Senior Keeper Nichole Shelmidine to monitor reproductive hormones in captive female silvered leaf monkeys, and research by Gina Savastano, Bronx Zoo Mammal Depart-

Staff of the WCS Living Institutions hosted the 7th Annual International Conference on Environmental Enrichment, which brought together animal enrichment professionals from around the globe. Below: Queens Zoo Wild Animal Keeper Erin Rosebrock trains a porcupine to target, a behavior that helps ensure stress-free routine health exams. Opposite: Red pandas at the Prospect Park Zoo.

ment assistant supervisor, on the effects of operant conditioning on cortisol levels in captive snow leopards.

WCS Living Institutions' staff organized and hosted the 7th Annual International Conference on Environmental Enrichment, a bi-annual event that brings together animal enrichment professionals from around the globe. Members of the Trustee Committee's Subcommittee on Animal Enrichment, headed by Katie Dolan, sponsored a series of lecture/fundraising events, which were made possible by Trustees Brian Heidtke, Barbara Zucker, and Dolan. In addition, with the help of graduate and undergraduate students, Diana Reiss, an Aquarium senior research scientist and co-chair of the WCS Animal Enrichment Program, conducted studies to ascertain whether walrus have the rare ability for mirror self-recognition, which has been demonstrated by dolphins as well as humans and a few other primates.

Five fourth-year veterinary students participated in the



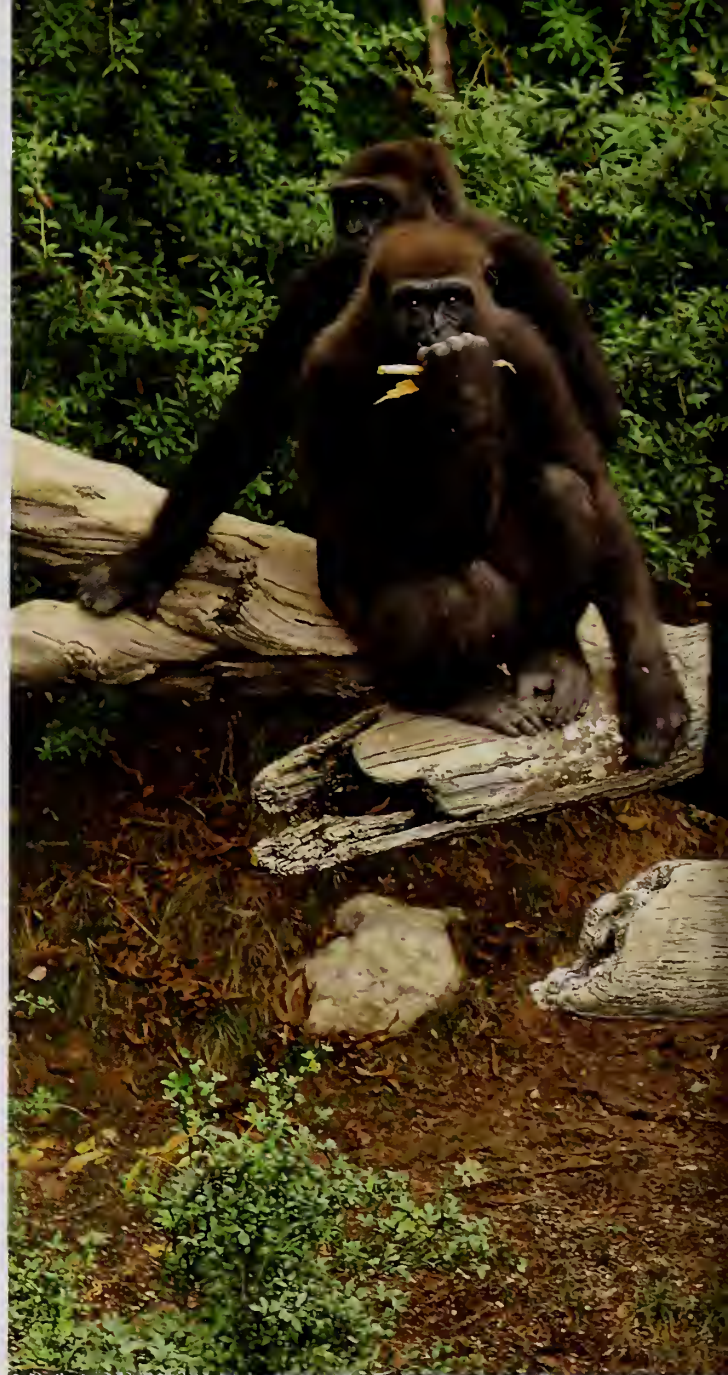


Ecotourism experience

In the 1950s, the WCS exhibits and graphics department was born at the Bronx Zoo with a printing press to produce animal identification labels. Exhibit fabricators were hired during the 1960s and '70s to sculpt habitats for the World of Darkness and World of Birds. At the time, an in-house graphics and exhibits department was a radical idea. With it began a never-ending process to find better ways to teach and inspire millions of zoo and aquarium guests about wildlife and conservation. By the 1980s, the team included landscape architects as well as exhibit and graphic designers, and had become known as EGAD.

Today, EGAD also exports its expertise to support WCS field projects. Led by WCS Vice President John Gwynne, a team of ecotourism and interpretive consultants in Gabon is assisting that country's president and community to create a unified national vision and a publication designed to bring ecotourism into the central African rain forest.

Making tourism sustainable is a challenge—not only environmentally but economically and socially. The WCS plans bring together the best global practices, “green” technologies, and science-based information in a highly visual format. As in our zoo and aquarium exhibits, this project is less about building lodges than about creating experiences (below). The first-time rain-forest visitor expects to see primates, but is greeted instead by a wall of green vegetation. Potent visitor experiences in nature must part this green curtain. The frontier here is to integrate science into emotionally powerful experiences relevant to conservation and accessible to people everywhere.



Wildlife Health Service's newly re-instituted preceptorship program. Through this program, the students gained experience in the comparative anatomy and diseases of exotic animals and wildlife. The Pathology Department partnered with Manhattan's Animal Medical Center to establish bi-

For the first time ever, according to a recent study by WCS and other organizations, scientists have observed and photographed wild gorillas using tools. All other species of great apes had previously been observed using tools in the wild, but never gorillas. Field researchers in the Republic of Congo saw a female gorilla use a branch to test water depth in Mbeli Bai—a swampy clearing in Nouabalé-Ndoki National Park. Above: Tunko (on far right) and her group at the Bronx Zoo's 6.5-acre Congo Gorilla Forest, a spectacular exhibit inhabited by more than 300 animals.





monthly veterinary anatomic pathology conferences. The conferences provide an arena for continuing education and a network of veterinary pathologists in the New York City region with diverse expertise.

WCS's Field Veterinary Program (FVP)—the first and largest program of its kind—was created 16 years ago to address the need for maintaining animal health in the protection of biodiversity. The FVP brings together experts across disciplines and sectors, including human medicine, domestic animal health, wildlife health, conservation biology, environmental law, epidemiology, business, public policy, and economics.

This year, the FVP held the “One World, One Health” workshop at The Rockefeller University in New York City. Health experts discussed current and potential transmission of diseases among human, domestic animal, and wildlife populations. Using case studies on Ebola virus, avian

influenza, and chronic wasting disease as examples, the assembled expert panelists from WCS, the World Health Organization, United Nations' Food and Agriculture Organization, and various U.S. government agencies delineated priorities for an international, interdisciplinary approach to combat current and future threats to the health of life on Earth.

The workshop produced 12 recommendations—the Manhattan Principles. These principles call for establishing a more holistic approach to preventing epidemic/epizootic diseases and maintaining the integrity of natural ecosystems. A similar workshop was hosted by the Ministry of Public Health in Thailand, a country that has experienced firsthand the political and economical fallout from avian influenza. The results were presented at a session of the IUCN World Conservation Congress, which was held in Bangkok.



living **CLASSROOMS**



WCS is believed to be the first zoological institution in the United States, perhaps the world, to establish an Education Department—in 1929. The urgency for conservation education has grown substantially, and the current WCS initiatives on local, national, and international fronts make its Education Division a model for promoting wildlife conservation. More and more, we are collaborating with partner institutions to disseminate WCS messages to audiences such as teachers and youth leaders who can reach large numbers of young people in formal as well as non-formal settings. From schools in rural India to colleges in New York, from hospital waiting rooms and libraries to our Living Classrooms, WCS educators inspire children and adults to care about our natural world.

In November, the Education Division held the first-ever conference for living institutions—in support of the UN Decade of Education for Sustainable Development (DESD), 2005–2014. DESD identifies “environmental conservation and protection” as one of its key themes, and presents abundant opportunities for action, collaboration, and involvement. Nearly 100 educators from 56 of North America’s foremost zoos, aquariums, botanical gardens, national parks, and nature centers gathered at the Bronx Zoo’s conference, “Today, Tomorrow, Forever,” to promote science and education as solutions to the challenges of sustainable development. The conference inspired strategic



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alliances to ensure that biodiversity and conservation remain highly visible in DESD's expansive agenda.

In the conference keynote speech, WCS President and CEO Steven Sanderson challenged participants to "... figure out ways that are both creative and practical that allow us to reposition nature in the discourse of human activity so that when we leave this Earth, we will have improved its prospects for the future and improved the human prospect as well."

Bronx Zoo Education

During the year, more than 246,000 schoolchildren from the surrounding tri-state area visited the Bronx Zoo, and another 40,000 schoolchildren were motivated to learn through the use of the zoo's collection of teaching animals and its dedicated instructors. Several new programs combine language arts and wildlife themes, and target the critical literacy needs of New York City area schools: *Animal Alphabet*, *T is For Tiger*, and *Wild Poetry* help develop language skills along with a respect for nature.

In celebration of National Poetry Month, the third annual Bronx Zoo Poetry Safari Weekend in April hosted 26,000 visitors for writing workshops, poetry exercises, readings, and book signings by award-winning children's poets, as well as an environmental-themed poetry slam. Eight hundred and eighty-two children ages 8 to 13 entered the Winning Words Poetry Safari Contest, and a Westchester County school district created a district-wide poetry website to display its students' works.

In its second successful year, the WCS partnership with the Children's Hospital at Montefiore involved Bronx Zoo education instructors and more than 100 young patients in activities based on the award-winning *Pablo Python Looks at Animals* and *Habitat Ecology Learning Program* curricula. National Teacher Training Programs staff trained hospital staff and volunteers from Montefiore's Carl Sagan Explainer Program in science content and delivery. The Central Park Zoo Education Department's Wildlife Theater players presented dramas coordinated with instruction the children received.

Supporting Parents in Advocacy, Reform, and Knowl-

edge in Science (SPARKS), a community partnership with New York City Department of Education (Instructional Region One) in the Bronx, completed its first year. Supported by the Institute of Museum and Library Services, SPARKS helps parents learn techniques to engage their children in science education at home and encourages them to become involved in their children's science education. Several of the 100 participating Bronx parents assisted Metro Area instructors in hosting and staffing the summer SPARKS Science Fair for Bronx Zoo visitors.

In addition to its large repertoire of school programs, the department offers an expansive roster of weekend courses for adults, families, and children. In *You Say Man-*

Right: Teachers test water quality along the Bronx River during an accredited WCS workshop based on *Wild Explorations in Science*, an online curriculum for high school students. This program highlights scientific inquiry and WCS fieldwork in the Yellowstone region, the Adirondacks, and along the Bronx River. Pages 26-27: Teenagers in the Summer Internship Program collect environmental data from the Bronx River, near the Mitsubishi Bronx Riverwalk. Page 29: The Bronx Zoo hosted the third annual Poetry Safari Weekend in April.



hattan, *I Say Manahatta*, Eric Sanderson, associate director of the WCS Landscape Ecology and Geographic Analysis Program, demonstrated how he and his colleagues combine historical records and maps, surveys, and the latest GIS technology to recreate the natural landscape of Manhattan at the time of Henry Hudson. Luke Hunter, coordinator of the Global Carnivore Program, discussed WCS's efforts to protect wild cats of Africa and their carnivore cousins around the world. In *Saving Great Whites and Whale Sharks*, WCS conservation scientist and shark expert Ramon Bonfil related his unforgettable encounters with the world's mightiest fish and its harmless cousin. Two new programs—*Going, Going Green* and *It's Not*

Easy Being Green: Ten Things You Can Do To Save Wildlife—were offered in support of the Decade of Education for Sustainable Development. Families calculated their "ecological footprint" to determine how their activities impact the environment and learned valuable information to help them make "green" choices in their daily lives.

At the annual Friends of the Zoo Appreciation Dinner, 34 volunteers were recognized with certificates and pins for a combined 375 years of service. This year, FOZ provided 36,981 hours of incomparable service.

New York Aquarium

Thirty-five years ago, the New York Aquarium Educa-



tion Department began with one classroom and a tiny staff devoted primarily to on-site programming for local schoolchildren. This year, the Aquarium, with its staff of 14 educators and hundreds of volunteers, became the living learning laboratory for marine science education at The Rachel Carson High School of Coastal Studies, a new school in Coney Island.

The Aquarium Education Department received the 2005 Coastal America Partnership Award for its habitat restoration program, *Project Creek*. The program was made possible by Teresa Ippolito and the EPA, Region 2, and guided by salt marsh landscaper Robbin Bergfors from the NYC Department of Parks and Recreation. Aquarium instructors and 50 John Dewey High School students tested water quality in Coney Island Creek, tagged horseshoe crabs, and conducted fish and crab inventories, especially noting exotic Japanese shore crabs, which thrive in this degraded habitat. This multipartnership introduced the students to fieldwork and research protocols, and challenged them to analyze data and assess the problems and solutions associated with environmental issues.

Environmental regulators at the city, state, and federal

levels realize that they need educators to improve public understanding of environmental regulations such as the Tidal Wetlands Act. The Aquarium is now in its tenth year of teaching about wetlands to homeowners in conjunction with the New York State Department of Environmental Conservation.

National Teacher Training Programs

Forty years ago George Schaller published *My Year with the Tiger*, highlighting his groundbreaking study of tiger ecology and conservation in India. This year the National Teacher Training Programs conducted workshops for teachers in New York City and around the country, highlighting tiger ecology and conservation. Teachers learned how researchers study these amazing animals in the wild,

Below: Students discover fish anatomy and adaptations through the ancient Japanese art of *Guyutaku*, fish printing. Opposite: During a *Teachers for Tigers* workshop in Bangladesh, C.V. Starr Fellows Amit Chavan and Gigi Joseph use tiger tracks to show how scientists make plaster casts of animal footprints.



and the threats tigers face. Using the Bronx Zoo-developed *Teachers for Tigers* curriculum, educators can bring exciting activities to their classrooms and help their students improve science skills while learning to value and care for a magnificent and endangered species.

The Urban Advantage Program, a New York City-wide initiative to improve eighth-grade science projects by promoting the use of city science resources, brought together the American Museum of Natural History, New York Botanical Garden, Queens Hall of Science, and other science institutions to provide professional training and technical resources to teachers and more than 5,000 students in 35 schools.

This year a new relationship was established with the Lakeland School district in Westchester County. Each fifth-grade teacher received training in using the Bronx Zoo's resources and the *Voyage from the Sun* curriculum to help students learn important lessons in science.

National Programs teamed up with the WCS Distance Learning Expeditions to reach students in upstate New York. Teachers in Rockland County and the Greater Capital region integrated the education materials into their

classrooms and brought their students on virtual field trips via videoconferencing, to reinforce important concepts of animal adaptations and conservation.

International Education

Teachers for Tigers workshops held in Malaysia helped forest rangers educate communities around protected areas about the importance of conservation. Capacity-building programs for education staff were conducted at zoos in Bangladesh, Uganda, and Zambia, and teacher-training workshops were held at the Shanghai Zoo as well as on a boat navigating the Bangladeshi Sundarbans—believed to be home to the largest remaining population of wild Bengal tigers.

In April, five Asian educators traveled thousands of miles to become C. V. Starr Conservation Education Fellows. Representing Bhutan, India, Malaysia, Nepal, and Papua New Guinea (PNG), these professionals observed education programs at the Bronx and Central Park Zoos; received special training in program evaluation, grant-writing techniques, and educational theater; and worked with WCS staff on projects to implement upon return to





“SPARKing a passion”

The WCS SPARKS (Supporting Parents in Advocacy, Reform, and Knowledge in Science) program marks a new community partnership with the New York City Department of Education Instructional Region One, in the northwest Bronx. Supported by the Institute of Museum and Library Services, SPARKS helps parents (many of whom are not native English speakers) of local students in grades K through 6 learn techniques to engage their children in science education at home and become involved in their science education in school. In this first year, 100 Bronx parents participated in a three-day workshop. Parents then volunteered to assist Bronx Zoo Metro Area education staff in hosting SPARKS Science Fairs held during the summer in the Bronx Zoo.

SPARKS fosters working community partnerships made up of parents and science center educators, which advance environmental and science education and increase children's science achievement and, ultimately, life-long science skills.

In the Wildlife Theater, Frankie the Frog (inset), Rhonda the Rabbit, and a cast of other wild characters entertain and educate visitors young and old about animal species and conservation. The dynamic shows utilize song, dance, puppetry, and theatrics to enhance the guest experience. This year, the Wildlife Theater Players branched out from Central Park Zoo to make their debut at both Prospect Park and Queens Zoos.

their home sites. In most cases, WCS Conservation Education Fellows work with populations living in or adjacent to critical conservation areas, such as Crater Mountain Wildlife Management Area in the highlands of PNG.

Curriculum Development

Globalization of WCS's curricula continues at an impressive pace. *Teachers for Tigers: An Educator's Tool Kit for Saving the World's Greatest Cat* is now translated into seven Asian languages, and Spanish editions of *How Nature Works* and *Rain Forests* have been completed. The *Wild Explorations in Science* series of online life science modules for high school students is nearing completion. Modules on *Adirondacks Landscape Species*, *Yellowstone Wolves*, *Bronx River Restoration*, and *Jaguar Conservation* are being disseminated to teachers who use them to model the work of conservation scientists.

Central Park Zoo

Wildlife Theater at Central Park Zoo produces exciting and engaging programs highlighting the key issues and principles of conservation. More than 175,000 visitors attended theater productions, including 65,000 children and parents at the Daniel Cowin Acorn Theater in the Tisch Children's Zoo. The off-site program provided audiences in schools, civic centers, and parks in the greater metropolitan area with its unique shows highlighting conservation and wild animals. generation to care about wildlife, but also provides theatrical experiences crucial to early literacy and oral language development.



More than 1,000 urban children benefited from *WILD Achievements*. This program not only encourages the next generation to care about wildlife, but also provides theatrical experiences crucial to early literacy and oral language development.

This year, the 130 Central Park Zoo Guides provided 126,000 visitors with more than 16,900 hours of volunteer service.

Prospect Park Zoo

More than 5,000 Brooklyn residents took advantage of Prospect Park Zoo's outreach program, *We're Taking the Zoo to You*, in children's hospital waiting rooms, libraries, day care centers, and senior centers. Of those residents, 1,000 signed up for interactive tours conducted by the Education Department's talented teaching fellows. Overall, tours conducted by educators and docents reached 6,000 participants. Animal Department keepers enthusiastically pitched in to conduct keeper chats with school groups and give student-created enrichment items to the animals.

Through the new Wildlife Theater program, 26,000 zoo visitors experienced performances of Frankie the Frog "Croakin in the Night" or the race between Turner the Turtle and Rhonda the Rabbit. By popular demand the stars made an encore appearance at *Keeping up with Keepers*. The "stars" generously autographed copies of their headshots after performances.

Docents interacted with more than 200,000 zoo visitors at new Discovery Stations, Live Animal Encounters, and Exhibit Talks. Our dedicated volunteers worked hard to make the zoo experience engaging for guests of all ages.

New and revitalized collaborations with Brooklyn organizations and cultural institutions included Heart of Brooklyn, BCUE, NYCMER, Brooklyn Academy of Science and the Environment, Partnership for Parks, Brooklyn community boards, Prospect Park Community Committee, and Cool Culture. These partnerships led to collaborative programs such as the Community Leaders Open House.

Queens Zoo

Underserved populations in Queens received free educational outreach programs via public libraries, community centers, and YMCAs. *Birds of a Feather* was developed in conjunction with the opening of the zoo's new thick-billed parrot exhibit, and *Dancing with Deer* focuses on predator/prey interaction with Native American-themed characters and activities.

The Wildlife Theater produced *The King of the Prairie* just for Queens Zoo. This production introduced a wonderful new animal character, Keystone, who informed visitors about the role of prairie dogs as keystone species in their North American prairie habitat.

Hospital outreach

The Carl Sagan Discovery Program at Children's Hospital at Montefiore focuses on learning, inspiration, and interactivity. This year, Bronx Zoo instructors engaged more than a hundred seriously ill youngsters in stimulating, wildlife-themed activities. Hospital staff described the instructors' interactions as "exceptional and highly motivating." Additionally, National Teacher Training Programs staff trained staff and volunteers from the Explainer Program in science content and delivery utilizing the WCS award-winning *Pablo Python Looks at Animals* and *Habitat Ecology Learning Program* curricula. Central Park Zoo Education's Wildlife Theater players visited the hospital and presented environment-themed dramas using professional puppets and props coordinated with the instruction the children had received previously.

At Sloan-Kettering, NYU Medical Center, and other area hospitals, the New York Aquarium Education Department outreach staff brought the excitement of the underwater world to over 400 young patients. On Aquarium Days at the Claire Tow Pediatric Pavilion on the ninth floor of Sloan-Kettering Cancer Center, the Aquaravan arrived with sea creatures, coral, whale bones, lobster shells, and other surprises to pique the imaginations of special-needs children to dive deep into exploration of life in the sea.





living
LANDSCAPES





In 1905, when Bronx Zoo Director William Hornaday surveyed the status of the American bison, he saw a species critically threatened. Fewer than 100 wild individuals remained, all within Yellowstone National Park, and another 1,000 were scattered in private collections. That same year, President Theodore Roosevelt, Hornaday, and a number of WCS advisors and interested people created the American Bison Society (ABS) to drive home a vision of bison recovery that combined captive breeding at the Bronx Zoo and releases in selected Western reserves.

Today, more than 300,000 bison roam the American West. Yet, most of these are on private lands, and many are no more than exotic cattle. Today, WCS is reviving the ABS as a vehicle to promote a new, “second century” vision—one that goes beyond biological recovery to promote full ecological recovery of the bison by 2105, with multiple large herds roaming freely and interacting with diverse species in restored prairie habitats.

In 1960, George Schaller completed his WCS-funded study of the mountain gorilla in Africa. Among other results, he reported that no more than 400 to 500 remained, all in the Virunga Volcanoes of Congo, Rwanda, and Uganda. Eighteen years later, Bill Weber and Amy Vedder discovered that the population had crashed to barely 260. Their findings mobilized international support for a concerted conservation effort

that included novel ecotourism and education elements. Today, that initiative has helped to bring the mountain gorilla population back to nearly 400. This year, Emma Stokes convened the world's gorilla and chimpanzee experts in Brazzaville, Congo, to chart a course for survival for mankind's closest relatives.

In 1989, WCS awarded a small grant to Claire Kremen to study butterflies on Madagascar's Masoala peninsula. Within five years that work led to the creation of Madagascar's largest rain-forest national park—a dynamic initiative that today includes whale monitoring and ecotourism in surrounding Indian Ocean waters.

For 20 years WCS has worked in the freshwater heart of the Amazon Basin to protect the Mamirauá flooded forest and its rich array of species in two huge reserves. In the process, we have ensured the vitality of human communities that depend on this wild habitat—and fulfilled the dream of our late Brazilian colleague Marcio Ayres.

Twenty-five years ago, WCS field researchers were hard-pressed to find capable local partners in many of the areas in which they worked. Today, as a result of extensive training and capacity building, most of our field personnel are nationals, and we work with increasingly capable local NGOs (non-governmental organizations) and governments. WCS continues to invest considerable resources in training and inspiring the next generation of conserva-

tionists, in the conviction that they are the key to future success in their countries and communities. The ongoing WCS commitment to sites and species around the world, and to the people who steward them, provides the understanding and experience to adapt tactics to ever-changing conditions within the dynamic conservation arena.

Africa

Since 1929, when WCS helped to purchase five million acres and create South Africa's Kruger National Park, the Society has aided in the protection of many of the world's great wild places. Perhaps most spectacularly, in 2002, WCS scientists Mike Fay and Lee White persuaded Gabon's President Omar Bongo to protect 11 percent of his nation in a new system of national parks. More than any other single move, that action helped save the great rain forests of the Congo Basin, and thousands of endangered gorillas, chimpanzees, elephants, and other plants and animals. This year, WCS continued to work with the Gabon government to turn this vision into a reality, marking the boundaries of parks on the ground, training eco-guides, talking with local communities, and striving to make Gabon the world's next great ecotourism destination. Throughout Africa, in more than 20 national parks, WCS conservationists are helping authorities manage and conserve their natural heritage, training guards and biol-



ogists, building vital infrastructure, and providing expert scientific advice and support.

For almost 50 years, WCS has been at the forefront of efforts to conserve Africa's largest and most ecologically important animal, the elephant: Ian Douglas-Hamilton's first studies in Tanzania; Cynthia Moss's discovery of the elephant's extraordinarily intricate social behavior; and Richard Barnes's pioneering studies of forest elephants. Today, Charles Foley and David Moyer are fighting to keep elephant migration corridors open in Tanzania, Steve Blake leads the international effort to monitor and halt the illegal killing of the rapidly declining forest elephants, and Loki Osborn teaches Africans to protect their crops using natural chili peppers.

Asia

In the rain forests, dry woodlands, and marshlands of South and Southeast Asia, WCS is active in protected area management: training local scientists, rangers, and government staff; studying rare and threatened species to develop conservation plans on their behalf; and working with governments to improve their capacity to conserve globally important sites. George Schaller and other WCS scientists are working high above the treeline in the Himalayas and associated uplands to conserve the chiru in the Tibetan Plateau; the giant Marco Polo sheep of the Pamirs in Afghanistan, Tajikistan, Pakistan, and China; the snow leopard in the Kyrgyzstan Altai; and the flare-horned markhor goat in the Hindu Kush of Pakistan. On the grassy plains of central Asia, WCS is studying and helping to manage the great herds of Mongolian gazelles of the eastern steppe, the bizarre and critically threatened saiga antelope in the grasslands of Mongolia and Russia, and the eastern imperial eagle and other large raptors of Kazakhstan. In the cold northern forests of Siberia, WCS works with Russian partners to save the brown bears of Kamchatka, the Siberian tiger, and the critically endangered Amur leopard, as well as the wild deer upon which these cats depend.

Hunting and Wildlife Trade

For thousands of years, hunting has threatened wild species, and it is still one of the greatest threats facing wildlife. Throughout its history, WCS has strived to control hunting and wildlife trade by influencing government policies and laws. William Hornaday was a strong advocate behind much early U.S. legislation: the 1902 Alaskan

Pages 36-37: Giraffes in Phinda Game Reserve, Kwa-Zulu Natal, South Africa. Page 38: A mouse lemur in Madagascar. Opposite: In Thailand's Balahala Forest, Asia Regional Trainer Antony Lynam (center), Senior Sargeant Major Choosak Wimon, and a former poacher plot the location of a camera trap to identify tigers.



The frontiers of conservation

WCS has been active in the Democratic Republic of Congo (DR Congo) since the mid-1980s. In 1996, a civil war broke out there, claiming more lives than any conflict since World War II. The DR Congo forests contain some of the most important sites for biodiversity conservation in Africa. They are home to unique assemblages of plants and animals, from the mysterious okapi to the majestic Grauer's gorilla, which are threatened with extirpation as collateral damage to the human tragedy.

This year, WCS conservationist Corneille Ewango (above) was awarded the Goldman Environmental Prize for his efforts to help save the Okapi Faunal Reserve. His colleague Richard Tshombe currently works with the Congolese Parks Institute (ICCN) to complete zoning plans and protect the reserve. To the south, Fidele Amsini organizes expeditions to help the ICCN build the infrastructure essential for the long-term survival of Maiko National Park. In the mountains of Kahuzi-Biega National Park, Innocent Liengola led the first post-war census of gorillas, and has since led teams of park staff, military, and local officials to renew conservation efforts there. The Itombwe Forest is an avifaunal hotspot east of Lake Tanganyika, where Leonard Mubalama works with community leaders to establish a reserve to protect the birds and gorillas.

Each of these individuals is doing extraordinary work despite great personal danger in places where lawlessness and massacres are common. Collectively, they are building a future for DR Congo in which natural resource management contributes to sustainable development and future generations can marvel at extraordinary biological wonders.

Game Act, which first set hunting seasons and bag limits in Alaska; policies and laws banning the import and sale of long bird plumes; the 1911 International Fur Seal Treaty, which ended all pelagic (at sea) fur seal hunting and began a five-year prohibition on all fur seal hunting, except for a small number to be hunted by local people for food; and the 1918 Migratory Bird Treaty Act, which protected migratory birds from being hunted or sold.

WCS is still a major influence on policies and laws regarding hunting and wildlife trade, with 65 projects in 25 countries. In Sarawak, Malaysia, WCS worked as technical advisors to the government on the Wild Life Protection Ordinance 1998, which bans all commercial sales of mammals, birds, reptiles, and amphibians taken from the wild, while allowing local people to hunt for subsistence. WCS's core strengths of being on the ground long-term and applying science and local knowledge means that we are succeeding with local partners to change policies and laws on hunting, and put them into practice, from the remaining wild lands under intense human pressure in Cambodia, Lao, Thailand, India, Mongolia, Malaysia, and Indonesia, to national parks and logging concessions of Gabon, Congo, and Cameroon, to protected areas and indigenous lands of Bolivia, Brazil, Ecuador, and Peru.

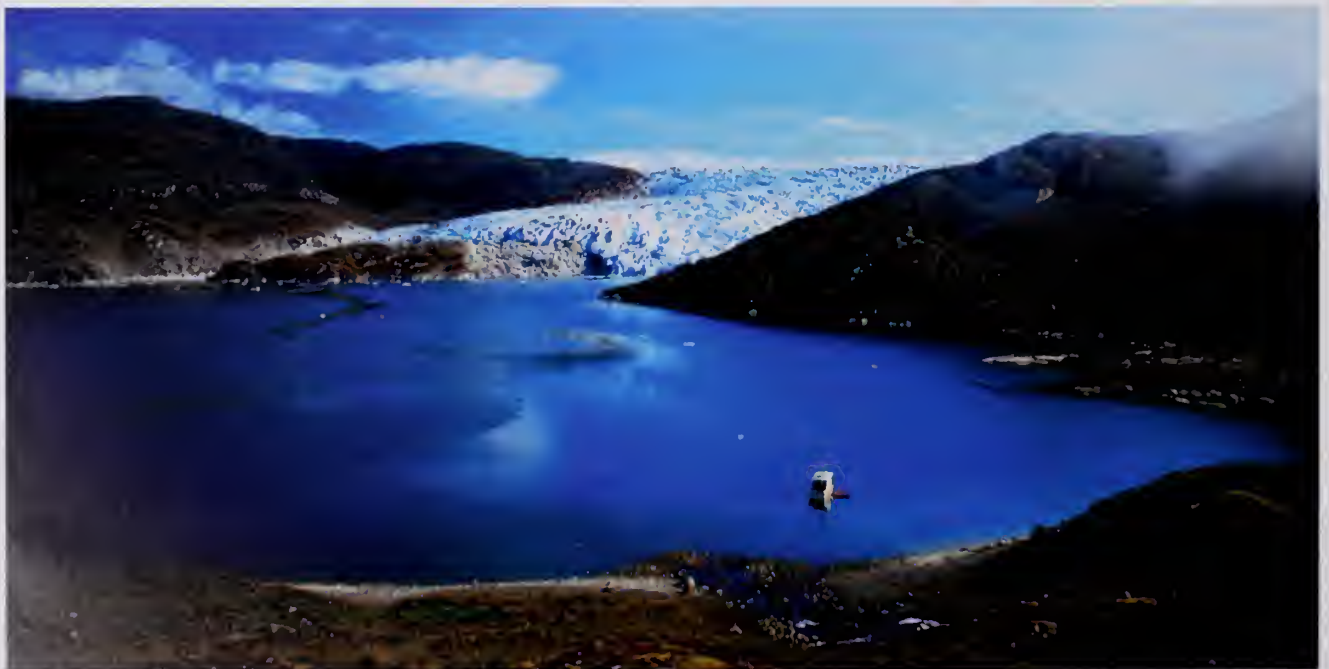
Latin America

In the belief that greater knowledge would come from systematic observations of wildlife in its native habitats, WCS's first curator of birds, William Beebe, established its first biological station in 1916, in what is now Guyana. There, he documented new species for science, as well as wildlife behavior and ecological processes that helped the

scientific community understand the richness in neotropical jungles. Following in this tradition, Robert Wallace and Humberto Gómez this year discovered a new titi monkey species, and in an auction to name the primate raised \$650,000, which was given to FUNDESNA, the Bolivian Trust Fund for Protected Areas. FUNDESNA is securing matching resources to increase the trust fund for the conservation of *Callicebus aureipalatii* and its natural habitat, Madidi National Park, for years to come. The Madidi team continued to work with the Tacana indigenous people to secure titling of their land that surrounds the national park. The WCS team in Chaco, Bolivia, trained the Isosog people to manage Kaa Iya National Park. Richard Bodmer and Pablo Puertas sailed the Peruvian Amazon in the Lobo de Rio to gather information on wildlife and train students in the art and science of conservation.

Former WCS President William Conway first visited high-altitude ecosystems in the Andes and the coast of Argentina—the so-called Southern Cone—in the early 1960s. This year, Felicity Arengo, Sandra Caziani, and the Grupo de Conservación de Flamencos followed the movements of flamingos through satellite tracking; Dee Boersma and her team in Punta Tombo continued their efforts to conserve the Magellanic penguin; and Graham Harris, Claudio Campagna, and WCS secured support from local and international stakeholders for the Patagonia Coastal Zone Management Plan and the Sea and Sky project. In partnership with Goldman Sachs, WCS is developing a new model of conservation in Tierra del Fuego, which allows companies in the private sector to become stewards of wildlife and wild lands in creative ways.

Conservationists may have almost reached the lim-





During the 1970s, WCS sea turtle conservation efforts led to the listing of the six species under the Endangered Species Act.

it in the creation of new public protected areas in Latin America. But we are only beginning to work with private landowners to secure conservation in key wild lands that are the homes of rare and threatened wildlife. That is our challenge for the future.

Living Landscapes

Over the past 100 years, WCS has been instrumental in setting up protected areas around the world, from bison reserves in Montana and Oklahoma, to the Chang Tang Reserve in Tibet, to the Mamirauá Reserve in Brazil. The WCS Living Landscapes Program was established in 2000 to help field staff use cutting-edge technologies—such as satellite imagery, survey design, and computer mapping—and the latest advances in the sciences to determine where the needs of wildlife extend beyond protected areas and clash with the needs of people. Our work ranges from conducting a threat assessment of Glover's Reef in Belize, with fishers, tour operators, fisheries cooperatives, biologists, government staff, and NGOs, to using high resolution satellite imagery to count large mammals in Tanzania. By ensuring that WCS field staff have the best and latest information and scientific techniques, we can help them make the best conservation decisions and take the most effective actions to save wildlife and wildlands—which is a WCS trademark.

Opposite: Bernardo O'Higgins National Park in southern Chile, where WCS is helping the National Park Service protect the highly endangered huemul deer.
Above: For several years, WCS researchers Cynthia Lagueux and Cathi Campbell have lead research and conservation in the Caribbean seascape off Nicaragua—an important area for sea turtles (here, a hawksbill).

Marine

From William Beebe's 1934 record-setting deep ocean dive in a cramped bathysphere, to Roger Payne's stunning 1967 discovery that humpback whales sing, to the 1992 establishment of the pioneering Glover's Reef Reserve in Belize, WCS has demonstrated leadership and innovation in conserving wildlife and wild places in the oceans. Since 1996, the Cetacean Conservation and Research Program, led by Howard Rosenbaum, has used high-tech genetic analyses, satellite tagging, and acoustic monitoring to provide information for the conservation of humpbacks and other whale and dolphin species. Based upon the 1931 analysis of whaling records compiled by then Aquarium Director Charles Townsend, Rosenbaum has determined areas where humpbacks once were common and focused attention on those sites for conservation.

In the 1970s, WCS sea turtle conservation efforts led to the listing of the six species under the Endangered Species Act, and to an understanding of the importance of turtles to local people in Mexico. For the past eight years, WCS researchers Cynthia Lagueux and Cathi Campbell have led research and conservation efforts in perhaps the most important area for sea turtles in the Atlantic—the Caribbean seascape of Nicaragua.

Since 1992, Tim McClanahan has provided unique insights into coral reef systems, and the type of recovery that occurs when reefs are protected from fishing. Today, McClanahan and Nyawira Muthiga anchor WCS coral ecosystem protection efforts in Kenya and the western Indian Ocean. Janet Gibson, WCS marine project leader in Belize, has been a driving force for the protection of Glover's Reef since the earliest WCS involvement there. This year, she led efforts to have the Belizean government strengthen Glover's Reef Reserve. Similarly, in Indonesia,

Stuart Campbell's team provided data crucial to redesign and more effectively zone Karimunjawa Marine National Park. Also, WCS launched a new watershed and seascape conservation project in Fiji to unite management of land and sea for the benefit of people and conservation.

North America

In 1895, the Society's founding goals included protection of "the native fauna of North America." It was a radical notion. At a time when the preservationist movement focused on scenic environments for human esthetic and spiritual enjoyment, saving wildlife was WCS's unique contribution to American conservation history. Today, WCS leads a science-based, cooperative approach to conservation in the increasingly contentious domestic arena. Field projects address issues such as energy development, forest management, connectivity, recreation, sprawl, and species recovery, in addition to a new training program for Native Americans.

WCS has demonstrated the need for a migration corridor for pronghorn antelope in and out of Wyoming's Jackson Hole; generated new information to improve management of key predators such as cougar, wolverine, and lynx; brought wildlife into the suburban sprawl equation in the New York tri-state region; and used the landscape species approach to create effective alliances with Adirondack communities. In the most difficult arena of all, the Alaskan arctic, WCS field staff has provided the best scientific data yet on the impacts of oil development on wildlife. Major challenges remain; yet each success raises our profile and our potential to improve wildlife management policies and practices.

Policy

During its long history, WCS has been instrumental in the establishment of more than 100 major protected areas around the world. WCS fieldwork and policy interventions led to the creation of the Arctic National Wildlife Refuge in the United States (1960), Tarangire National Park in Tanzania (1971), Amboseli Reserve in Kenya (1974), Cockscomb Forest Reserve in Belize (1984), and Lope National Park in Gabon (2002), to name a few.

Now, broader efforts are under way to design and manage protected area systems on a global scale. WCS has been working since 2004 to strengthen international support for these efforts through the Convention on Biological Diversity's (CBD's) Program of Work on Protected Areas. CBD aims to establish comprehensive, ecologically representative, and effectively managed national and regional systems of protected areas for terrestrial (by 2010) and marine (by 2012) systems. WCS is a key partner for the CBD and many national governments in achieving these ambitious goals.

Science and Exploration

From humid, equatorial forests to remote, arid deserts, the WCS Science and Exploration Program explores Earth's last wild places to help protect large, inviolate tracts of wilderness and safeguard the most threatened and ecologically demanding species. For more than 30 years, WCS has studied crocodilians worldwide. Today, John Thorbjarnarson focuses on the seven most threatened species, from the Cuban crocodile to the critically endangered Chinese alligator, which has been reduced to 130 individuals in the lower Yangtze valley.

In a very different part of China, George Schaller's work in the Chang Tang region of Tibet has yielded a mosaic of protected areas spanning almost 200,000 square miles. In 2001, Schaller discovered a critical Kunlun Mountains calving ground for the endangered Tibetan antelope. This year—the twentieth anniversary of his work in the Chang Tang—he studied the antelopes' calving behavior.

Half a world away, and in fitting tribute to Schaller's seminal 1960s study of the Serengeti lion, Luke Hunter launched the first coordinated strategy to conserve African lions. Increasingly reduced to isolated populations, lions require dedicated action in much of their remaining range. WCS's Lion Conservation Program is modeled on long-term strategies for conserving jaguars, set in motion almost 20 years ago with Alan Rabinowitz's study of wild jaguars in Belize. Since 1999, WCS has supported more than 30 scientists working in 12 jaguar range countries. With an established network of researchers and conservationists across Latin America, the Jaguar Corridor Program is now connecting the dots, literally, from northern Mexico to Argentina. The results of this major endeavor will guide WCS strategies for conserving lions, tigers, and other species of great cats around the world.

Training and Capacity Building

A key WCS strategy is to identify and support people who will become conservation leaders and define the future of wildlife and wild lands in their own countries. Since 1944, WCS has been awarding small grants to help young researchers gain valuable experience, develop field skills, and advance to careers in conservation. Recipients include renowned conservation leaders Olaus and Mary Murie, Louis Leakey, Dian Fossey, Ian Douglas-Hamilton, Birute Galdikas, and Russell Mittermeier. Many current WCS staff also began as small grants recipients—among them, Alan Rabinowitz, John Thorbjarnarson, Bill Weber, Amy Vedder, Joshua Ginsberg, Dale Lewis, Elizabeth Bennett, Claudio Campagna, John Oates, Margaret Kinnaird, Mike Fay, and Andy Mack. Just as looking backward shows what such support can achieve, WCS looks forward with equal expectation that these investments will help protect wildlife and wild lands for future generations.



Women of the Adirondacks

Loons, all-terrain vehicles, bear-proof canisters, mercury, climate change. They are all part of the WCS North America Program in the Adirondacks, the Northeast's oldest park and the largest in the Lower 48. Now in its tenth year, the Adirondack Communities and Conservation Program (ACCP) is run by five women committed to enhancing the health of human and natural communities in the park.

Michale Glennon (top) grew up in the Adirondacks and heads the Adirondack Living Landscapes Program, which outlines conservation needs for the Park through applied research on six target species, including black bears, moose, wood turtles, and boreal birds. Leslie Karasin (second photo) has published on all-terrain vehicle use in the park and supports the group's outreach and research activities, particularly on climate change impacts in the Adirondacks. Zoë Smith (third photo, with Andy Keal) runs the community outreach and black bear program, and has developed partnerships among the park's residential communities and conservation interests. One focus is to reduce human/bear conflicts through education and improved recreational guidelines. Nina Schoch (bottom) and Amy Sauer study the common loon, an iconic northern species, to see if rising mercury levels affect nest productivity, and to follow the birds' migrations. Heidi Kretser, the ACCP founder, is completing her doctoral course work at Cornell University, and will soon rejoin the group. Together, these women represent WCS's long-term commitment to working with people and wildlife to further conservation interests.

field projects

Africa

BOTSWANA

Scent marking in African wild dogs: Understanding habitat management and conservation. M. Parker

Tracking human/wildlife conflict of the African wild dog in the central Kalahari. M. Swarner

CAMEROON

Conservation and community participation in Banyang-Mbo Wildlife Sanctuary. T. Sunderland

Survey and priority setting in the Cameroon/Nigeria highlands. T. Sunderland, R. Fotso, J. Oates, M. Eno

Status and conservation of Cross River gorillas in the Cameroon Highlands. J. Groves, J. Oates

Management of Mbam-Djerem National Park. F. Hiol Hiol, R. Fotso

Large mammal surveys and bushmeat studies around Mbam-Djerem National Park. R. Fotso, F. Hiol Hiol, F. Maisels

CAMRAIL: Support of law enforcement of bushmeat transport on the railway. R. Fotso

Differential vulnerability of primates to hunting and correlates of extinction risk: implications for

primate conservation. J. Linder

CENTRAL AFRICAN REPUBLIC

Dzanga forest elephant demographics and social dynamics. A. Turkalo

Research on the use of elephant infrasound as a method of censusing in forests (Cornell University). K. Payne, A. Turkalo

CONGO REPUBLIC

Nouabalé-Ndoki Project, Nouabalé-Ndoki National Park (NNNP). M. Gately, E. Stokes, P. Elkan, S. Elkan, J. Mokoko, D. DosSantos

Large mammal distribution and relative abundance between NNNP and the village of Bomassa-Bon Coin. E. Stokes, D. Ekoutouba, M. Mboulafini, M. Hockemba

Forest elephant and large mammal distribution and abundance in relation to human activities. E. Stokes, P. Boudjan, S. Blake

Long-term phenological and nutritional studies of elephant and ape foods. E. Stokes, D. Morgan, C. Sanz, T. Breuer, L. Bodjo

Nouabalé-Ndoki peripheral zone management. P. Elkan, P. Auzel, C. Prevost, S. Elkan

Biological surveys and monitoring in Nouabalé-Ndoki peripheral zone and greater landscape. P. Elkan, E. Stokes, S. Strindberg, R. Malonga, A. Moukassa

Bushmeat off-take monitoring in logging concessions in the buffer zone of NNNP. P. Elkan, M. Mocknin, A. Moukassa, M. Eaton, R. Malonga

Bushmeat off-take and human demographic monitoring in Bomassa-Bon Coin, NNNP. D. Ekoutouba, E. Stokes

Dwarf crocodile ecology and bushmeat surveys. J. Thorbjarnarson, M. Eaton

Mbeli bai gorilla social dynamics, ecology, and genetics. T. Breuer, E. Stokes, B. Bradley

Ecology and social behavior of chimpanzees of the Goualogo Triangle, NNNP. D. Morgan, C. Sanz, J. Onononga

Chimpanzee genetics study, Goualogo Triangle, NNNP. D. Morgan, C. Sanz, B. Bradley

Before-and-after impacts of logging:

Focal study on chimpanzees and gorillas, Goualogo Triangle, NNNP. D. Morgan, C. Sanz, S. Strindberg

Conservation of Conkouati-Douli National Park. H. Van Leeuwe

Conservation and biological surveys of Lac Télé Community Reserve. H. Rainey

School education program and environmental curriculum development. S. Elkan, M. Gately, E. Stokes

Odzala Kokoua National Park Project. R. Malonga

Bateke Plateau Project. N. Gami

Development of Congo Wildlife Service. P. Elkan, J. Mokoko

Lope/Chaillou Project in Congo. P. Elkan, J. Mokoko

DEMOCRATIC REPUBLIC OF CONGO

Elephant and large mammal monitoring in the Okapi Faunal Reserve. J. Hart, P. Tshikaya

Okapi Faunal Reserve and

Andrés Novaro in Patagonia, where he works with Susan Walker, studying the effects of hunting, habitat fragmentation, and invasive species.



- Community Management Zoning Project. T. Hart, R. Tshombe, R. Mwinyihali
- Ituri Forest Research and Training Center (CEFRECOC). T. Hart, J. Hart
- Botanical exploration of the Okapi Faunal Reserve. T. Hart, C. Ewango
- Gorilla monitoring in Kahuzi Biega National Park, exploration of the lowland sector and habitat mapping. I. Liengola, J. Hart, M. Mbachu, J. Muhigua
- Large mammal surveys and support to management in Kahuzi Biega National Park. I. Liengola, J. Hart, F. Grossmann
- Support of the re-establishment of Kahuzi Biega National Park infrastructure. J. Hart, S. Whataut
- Coordinating a collaborative biological monitoring program in five World Heritage Sites, in conjunction with MIKE program (Monitoring the Illegal Killing of Elephants). O. Ilambu, J. Hart
- Itombwe Forest, advising and follow-up on a community conservation project developed by national NGO. J. Hart, L. Mubalama
- Development of a national conservation database, support systems for ICN. T. Hart, R. Mwinyihali
- Salonga National Park Project. J. Ilanga
- Maiko National Park. F. Amsini
- Estimating forest zoning and forestry impact. J. Makana
- ETHIOPIA**
- Ethiopian wolf conservation and non-governmental organization capacity-building. S. Williams
- Ethiopian elephant: Critical population monitoring and law enforcement. Y. Demeke
- GABON**
- Leopard surveys and ecology in Lopé Reserve. P. Henschel, J. Ray
- Research and training for management of Lopé National Park and development of visitor center. K. Abernethy, L. White, K. Jeffrey, E. Chehoski
- Mandrill ecology and ranging patterns. K. Abernethy, W. Karesh
- Forest history and dynamics and their implications for management in the Lopé National Park. L. White, R. Oslisli, A. Batsiellili
- Ecology and social organization of elephants in central Gabon. L. Momont, S. Blake
- Use of plant genetics to map forest refuges. N. Muloko Ntountoume
- Sea turtle research, conservation, and support to a national NGO, ASE. G. P. Sounguet, R. Parnell
- Bushmeat survey and management. K. Abernethy, M. Starkey, D. Wilkie, E. Effa
- Management, research, and ecotourism in Iguela, coastal Gabon. M. Fay, T. Nishihara
- Gorilla research at Langoué bai. M. Doukaga Kombila
- Establishment of national park management infrastructure with Gabon government. N. Orbell, L. White, B. Curran, M. Fay
- Cetacean research and humpback whale conservation in coastal Gabon. S. Ngouessono, G. Sounguet, L. Collins, H. Rosenbaum
- Support to government for establishment of a protected areas network: 13 new national parks. L. White, M. Fay
- Crocodile ecology and the bushmeat trade. J. Thorbjarnarson, M. Eaton
- Bateke National Park Project. R. Calaque
- Ivindo National Park Conservation Project. N. Orbell
- Mont Cristal National Park. J. Overman
- Gabon Press and Communications Program. J. Ponte
- Mayumba Marine National Park Project. R. Parnell
- Birougou and Waka National Park Projects. M. Starkey
- Akanda/Pongara National Park Project. B. Curran
- Gabon outreach and education program. E. Chehoski
- Gabon ecotourism development. J. Gwynne, L. White, B. Curran
- Parks and People. J. Demmer, D. Wilkie
- Reduced impact logging. M. Vroom
- IVORY COAST**
- Conservation of West African manatees and Fresco Lagoon complex. A. Kouadio
- KENYA**
- Laikipia Predator Project: Conservation of large carnivores in livestock areas, mitigating human-predator conflict. L. Frank
- Conservation of African wild dogs in the Samburu-Laikipia area. R. Woodroffe
- Kilimanjaro Lion Conservation Project. L. Frank
- Breaking bad habits: Rethinking linkages for community conservation and rural development in sub-Saharan Africa. A. Quraishi
- Reintroducing a large herbivore: A remote sensing and agent-based modeling technique to determine the mountain bongo's past and present critical habitat. L. Estes
- The role of anthropogenic fire and livestock grazing in sustaining avian diversity in East African savannas. M. Gregory
- MADAGASCAR**
- Masoala National Park Conservation Project. N. Blondel, J. MacKinnon, H. Crowley, L. Andriamampianina
- Protection of Makira Forests through the creation of a new conservation site. C. Holmes, H. Crowley, L. Andriamampianina, D. Meyers
- Freshwater fish in-situ and ex-situ conservation. P. Loisel
- Conservation of humpback whales in Antongil Bay. H. Rosenbaum, Y. Razafindrakoto
- Conservation of the radiated tortoise and spider tortoise and the habitat in southern Madagascar. H. Randriamahazo, J. Behler
- Sahamalaza community-based natural resource management project. L. Andriamampianina, N. Ramasinoro
- Capacity-building and training program; education and training modules for conservation biology for university and government institutions. H. Crowley, T. Rahagalala
- Support to Madagascar government's national conservation planning. J. MacKinnon, H. Crowley, L. Andriamampianina, H. Randriamahazo, D. Meyers
- Support to the Madagascar National Parks Service: Business plans for parks, ecological monitoring, and sustainable finance mechanisms. J. MacKinnon, H. Crowley, R. Victorine
- Promotion of ecotourism in Masoala and Andohahela National Parks. H. Crowley, L. Andriamampianina, J. MacKinnon
- MALAWI**
- Mt Mulanje biodiversity and monitoring. J. Bayliss, T. Davenport
- NAMIBIA**
- Ecology, conservation, and community-based management of desert-adapted elephant and giraffe in northwest. K. Leggett
- Large carnivore estimates for improved management on farmlands surrounding Waterberg Plateau Park. A. Stein
- NIGERIA**
- Status of gorillas, other primates, and forests in eastern Nigeria. A. Dunn, J. Oates
- RWANDA**
- Nyungwe forest conservation: Ecotourism, education, inventory and monitoring. M. Masozera, I. Munanura, F. Mulindahah, A. Plumptre, M. Sindikubwaho, B. Kaplan
- Feeding ecology and ranging of chimpanzees at high altitudes. M. Masozera
- Ranging behavior of a group of 400 colobus monkeys. F. Mulindahahi, M. Masozera, A. Plumptre
- Restoring biodiversity conservation capacity in the mountain forest protected areas. M. Masozera, B. Weher
- Study of crop-raiding patterns around the Parc National des Volcans. A. Plumptre
- SOUTH AFRICA**
- Conservation of a critically endangered, spacially fragmented mammal species and its habitat: the riverine rabbit. K. Collins
- The effects of habitat fragmentation and larger canids on Cape foxes in Southern Africa. J. Kamler
- Impact of legal and illegal hunting on leopard ecology in KwaZulu-Natal; using leopards to promote conservation planning. L. Hunter
- TANZANIA**
- Southern Highlands Conservation Program. T. Davenport
- Discovery of and protection for the Highland mangabey, a new species of monkey. T. Davenport, N. Mpunga, S. Machaga, D. DeLuca, T. Jones, C. Ehardt, T. Butynski
- Carnivores of the Rift. D. DeLuca, N. Mpunga
- Tanzania Cheetah Conservation Program: A survey of the distribution and status of cheetahs. S. Durant, J. Shemkunde, D. Gottelli
- Tanzania Carnivore Conservation Center. S. Durant, M. Mshua
- The effect of poaching on elephant social systems and human/wildlife conflict mitigation outside park boundaries, Tarangire. C. Foley, L. Foley, S. Sikombe
- Conservation Flight Program. D. Moyer
- Rungwa-Ruaha Landscape Program. P. Coppolillo
- Zanzibar coastal forest conservation and red colobus project. K. Siex



Madagascar, the program

Energy, commitment, creativity, passion—these words describe both WCS's Madagascar Conservation Program and Helen Crowley (above), the charismatic program director. Helen fell in love with the world's most biologically rich island while running a research program at Berenty, home of the exuberantly social ring-tailed lemurs, which will soon be a key feature of the Bronx Zoo's *Madagascar!* exhibit.

Crowley began working for WCS in 2000 as assistant director of the Africa Program, where she helped craft the Congo Basin Forest Partnership and the Central African World Heritage Forest Initiative. But her love of Madagascar drew her, and she returned to the island with her husband, David, and their two children in 2003. There, she has led an extraordinary team of Malagasy and expatriate conservationists in building the WCS program into the most important partner of ANGAP, the Malagasy national parks service, and a key force helping to implement President Marc Ravalomanana's "Durban Vision" to triple the area in Madagascar under protection.

Today, WCS is helping ANGAP manage the country's largest park, Masoala, design a vast new protected area, the Makira Plateau, implement integrated coastal zone management, save the critically endangered radiated tortoise, and, perhaps most importantly, build the capacity of Madagascar to manage one of the most important protected area networks on the planet for the benefit of the Malagasy people and the world.

UGANDA

- Development of the Institute of Tropical Forest Conservation in Bwindi Impenetrable National Park. A. McNeilage
- Surveys of the Bwindi Impenetrable National Park. A. McNeilage, A. Plumptre, W. Olupot
- Conservation of the mountain gorilla population in Bwindi Impenetrable National Park. A. McNeilage
- Study of edge effects in the conservation of fauna and flora in Bwindi Impenetrable National Park. W. Olupot
- Impacts of tourism on Mountain gorilla behavior. A. McNeilage, F. Muyambi
- Biodiversity: Ecological processes, evolutionary mechanisms, and capacity-building. C. Chapman, L. Chapman
- Primate dispersal and conservation in Kibale Forest. W. Olupot
- Socioeconomic survey of communities living around Bwindi Impenetrable National Park, Virunga Volcanoes, and Nyungwe National Park. A. Plumptre, I. Munanura, A. Kayitare, H. Rayner

- Developing strategies to address human-wildlife conflict in collaboration with CARE. A. McNeilage
- Building the capacity of Uganda Wildlife Authority in monitoring, research, and adaptive management. A. Plumptre
- Trans-boundary collaboration for protected areas in between Uganda Wildlife Authority and Institut Congolais pour la Conservation de la Nature in Democratic Republic of Congo. A. Plumptre, I. Owionji, D. Kujirakwinja
- Economic valuation of forest types. G. Bush, A. Plumptre, R. Victorine
- Conservation of chimpanzees. A. Plumptre
- Nutritional ecology of chimpanzees, Kibale National Park. A. Pokempner
- Biological surveys of the Albertine Rift forests to establish zoning plans for the forests. A. Plumptre, I. Owionji, D. Nkuutu
- Primate crop raiding in Uganda: Predicting, understanding, and mitigating the risk. A. Welber
- The ecology of disease transmission: Implications for primate conservation in Kibale National Park. I. Rwego

ZAMBIA

- Improving natural resources management and sustainable agriculture in the Kafue area,

CONASA. D. Lewis, WCS Zambia Staff

- Community markets for conservation and rural livelihoods (COMACO). D. Lewis, WCS Zambia Staff
- Database management for a multi-sector approach to wildlife conservation. D. Lewis, WCS Zambia Staff
- Conservation through "Food-for-better-farming" initiative. D. Lewis, WCS Zambia Staff
- Poacher/hunter-to-farmer transformation program. D. Lewis, WCS Zambia Staff
- Community expeditions in African culture and wilderness—living ecotourism. D. Lewis, WCS Zambia Staff
- Nyamaluma college community-based training and land-use planning/African College for CBNRM. D. Lewis, WCS Zambia Staff
- North Luangwa Lion Project. P. White, L. Hunter

ZIMBABWE

- Ecology and deterrence of crop-raiding elephants. F. Osborn, G. Parker

REGIONAL

- Census of the mountain gorillas of the Virunga volcanoes (Rwanda, Uganda, DR Congo). A. McNeilage, M. Gray, K. Fawcett, M. Robbins, A. Plumptre
- Central African Forestry Program. J. Hall, V. Medjibe
- Forest buffalo survey and conservation in Gabon and Congo. L. Molloy, R. Malonga, W. Karesh
- Satellite image analysis of the Albertine Rift to assess forest change since the mid-1980s. A. Plumptre, N. Laporte
- Development of elephant monitoring system in the Congo Basin for CITES, MIKE Program (Monitoring the Illegal Killing of Elephants). S. Blake, J. Hart, R. Beyers
- Priority setting for African carnivores. J. Ray, L. Hunter
- Rangewide priority-setting exercise for the African lion/Lion Conservation Program. L. Hunter, E. Sanderson, K. Minkowski
- MegaFlyover: Last of the Wild/ Human Footprint, over-flight and ground-truthing exploration for setting conservation action priorities across the African continent. M. Fay, E. Sanderson, P. Ragg, J. Forrester
- Congo Basin Forest Partnership (CBFP) under Central African Regional Program for the

Environment (USAID/CARPE). J. Deutsch, J. Hall

Trinational park monitoring: Congo, CAR, Cameroon (WCS/WWF/USAID). A. Turkalo, M. Gately, E. Stokes

WCS Africa small grants program for African nationals and Beinecke student scholarship support. G. Patterson, J. Rogers

Asia

AFGHANISTAN

Four-country Peace Park Initiative. G. Schaller

Conservation of Marco Polo sheep. G. Schaller

CAMBODIA

Establishing CALM (Conservation Areas through Landscape Management) in the Northern Plains. T. Setha, K. K. Sreng, T. Clements

Southern Mondulkiri Conservation Landscape. M. Soriyun, T. Evans, J. Walston

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Ecology of the Indian giant squirrel in Western Ghats. J. Pai

Reproductive biology of the lion-tailed macaque. A. K. Sharma

Vocalization studies of white-bellied short wing in Western Ghats. A. Sancheti

Saving tigers

When WCS Director of Science George Schaller traveled to India in 1963 for the first in-depth field study of tigers and their prey, little did he know the long-term repercussions his work would have. His 18 months in the forests—tracking and observing tigers, deer, and other wildlife—led not only to a global effort to save the tiger, but it also inspired Ullas Karanth and Alan Rabinowitz to turn their attention to the tiger crisis.

Rabinowitz, now WCS director of science and exploration, worked throughout Asia on tigers and other predators in the 1980s and '90s, identifying conservation priorities, working with governments to set aside core habitat as protected areas, and publicizing tiger conservation around the world. Karanth, now WCS director for India, is one of the acknowledged world tiger experts, especially in cutting-edge methods to study these cats in the wild. Karanth and Rabinowitz have inspired a new generation of tiger biologists, particularly Melvin Gumal, WCS director in Malaysia, and Anak Pattanavibool, WCS director in Thailand.

WCS believes that individuals can make a difference in conservation. The effect a single scientist can have on generations of scientists that follow can also be enormous. Already, Gumal and Pattanavibool are inspiring yet another generation of scientists, who will become caretakers of the last tigers in the wilds of Asia.





Flying hooves, open steppe

Among the world's greatest spectacles are mammal migrations—milling hooves, billowing dust, and the bleats and bellows of congregating wildlife. African wildebeest and Alaskan caribou still undertake spectacular treks, but in Asia the only species still capable of such epic events is the Mongolian gazelle (above).

Mongolia is a land of huge open spaces and few people—about 2.6 million, only a few more than live in Brooklyn, New York—in a country whose length (about 1,500 miles) is almost the same as the distance from New York City to Denver, Colorado. It is just for this reason that Mongolia harbors this migration.

WCS has a long history in Mongolia, beginning with George Schaller's surveys in the Gobi Desert, Altai Mountains, and Eastern Steppe in 1989 and '90. In 1998, WCS began an intensive study of Mongolian gazelles, and in 2003, Assistant Director for Asia Peter Zahler opened a WCS office there and began to concentrate on the Eastern Steppe, a 100,000-square-mile swath of near-pristine grassland.

Today, under Program Director Amanda Fine, WCS is working on gazelles, wolves, marmots, birds, protected areas, community conservation, and capacity building. The program also is looking at how best to conserve the last 25 Gobi bears, and is beginning a study of the saiga antelope—a species that ten years ago numbered in the millions, but now totals fewer than 40,000 due to uncontrolled poaching. About 1,000 remain in Mongolia. WCS hopes to return the saiga to the pantheon of great migratory spectacles.

INDONESIA

CANOPI (Conservation Action and Network Program, Indonesia) in the Bukit Barisan Selatan Landscape. N. Andayani, N. Brickley

Elephant ecology and resolution of human-elephant conflicts in southern Sumatra. S. Hedges, D. Gunaryadi, A. Gorog

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Way Canguk Research and Training Center: Forest ecology research, hornbill, ape, large mammal and bat research, conservation science training. M. Nusulawo, N. Winarni

Conservation Training and Resource Center: Multi-partner capacity building resource sharing network. N. Brickley, N. Andayani

Collaborative Environmental Law Enforcement: Wildlife Crimes Units in Sumatra and Sulawesi. H. Alexander, D. Nugroho, S. Siwu

Collaborative protected areas management in North Sulawesi. J. Tasrin, D. Rogi, I. Hunowu.

Maleo conservation in North Sulawesi. A. Dwiyahreni, I. Hunowu, D. Rogi

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IRAN

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KAZAKHSTAN

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LAO PDR

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S. Ounmany

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PAKISTAN

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PAPUA NEW GUINEA

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Consolidation of the National Protected Areas System. M. Boza

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Developing an open ocean conservation area for the protection of marine mammals and sea birds: A Park of Sea and Sky. C. Campagna, C. D'Agrosa, V. Falabella

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An evaluation of Caribbean shark species. E. Pikitch, D. Chapman, D. Abercrombie

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Conservation of large, highly mobile fish populations. R. Graham

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Reef Atoll, Belize. J. Gibson

Glover's Reef Marine Reserve Multi-stakeholder conservation. J. Gibson

Promoting sustainable fisheries through demonstration of Glover's Reef Marine Reserve. J. Gibson, C. Acosta

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Blue whale ecology and conservation in coastal productive areas off Chile. R. Huckle-Gaete

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NAMENA Marine Protected Area Management Plan. D. Olson, L. Farley

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Investigating the status and ecology of Ganges river dolphins, *Platanista gangetica*, and Ayeyarwady dolphins, *Orcaella brevirostris*, in the Sundarbans Delta. B. Smith

Training for South Asian scientists and an assessment of coastal cetacean populations in the Bay of Bengal. B. Smith

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Rebuilding effective marine management at Karimunjawa National Park. S. Campbell, M. Marnane, J. Wibowo

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H. Randriamahazo, B.
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An integrated approach to
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H. Rosenbaum, P. Ersts, Y.
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Feasibility assessment for
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Ecology and conservation of the
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Monitoring and characterizing
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Mark/recapture study and genetic
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Pilot study to determine the habitat
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D. Erickson

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Hawksbill turtle population
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Development of a training program
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Socioeconomic aspects of traditional
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Conservation of coral reef hotspots
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Improving the ecological and
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Identifying critical habitat and
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Ecology and conservation of the
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Development of a training manual
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Assessing the status of Ayeyarwady
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Coral reef ecology in the Caribbean.
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WildlifeSAIL- Global Circum-
navigation on a 47-foot sailing
catamaran to promote education
and awareness of ocean
conservation. J.F. Thye, F. Wilkin

Developing a technology toolbox
for the design of marine
protected areas. J. Lindholm, T.
McClanahan, L. Kaufman

Human footprint in the marine
environment. E. Sanderson, L.

Re-wilding Patagonia

Andrés Novaro and Susan Walker (below) lead the WCS program in the steppes of northern Patagonia and the southern Andes of Argentina. This land of open skies is the harsh, windswept home of the guanaco, a South American relative of the camel; the rhea, a large, flightless bird; and the Andean cat, a species endemic to high-altitude habitats. Novaro and Walker's program began as a small research project in 1993, and has expanded to include conservation at two critical landscapes—Auca Mahuida-Payunia and San Guillermo—training of Argentine professionals and park rangers, and extensive outreach to and support for government agencies responsible for wildlife conservation policy. At Auca Mahuida-Payunia and San Guillermo, they collaborate with provincial and national protected area agencies to reduce the effects of poaching on wildlife and mitigate results of gold mining and oil exploration and extraction.

Currently, Walker is coordinating an initiative to prioritize other areas for conservation on the Patagonian steppe, where only one percent of the land is effectively protected. Because most of the land in the region is privately owned, Novaro has been investigating ways to promote conservation-oriented decisions by ranch owners and land occupants. Together, Novaro and Walker are studying the effects of threats such as hunting, habitat fragmentation, and invasive species. Ultimately, they are sharing their vision of re-wilding the marvelous steppes of Patagonia and the southern Andes.



All in the family

Based in Kenya, the husband-and-wife team of Tim McClanahan and Nyawira Muthiga (below) is making great strides in marine conservation. Tim directs a cutting-edge coral reef research program, and Nyawira leads an initiative to increase the conservation impact of WCS's work on marine and coastal areas across the western Indian Ocean.

Understanding the importance of training the next generation of conservationists, Tim initiated a Coral Reef Internship Program in 1994 to train regionally based scientists in monitoring, experimentation, and environmental assessment. Internships are open to nationals of countries on the African coast and in the western Indian Ocean. Many interns have continued on to study for higher degrees or moved into professional careers in marine conservation.

Nyawira fosters the sustainable management and use of coastal and marine ecosystems through planning, research, monitoring, and training programs. Together, Tim and Nyawira are training and mentoring the next generation of marine conservationists.



Lauck, C. D'Agrosa

Determining conservation units and species/population relationships among humpback dolphins throughout their range. H. Rosenbaum, S. Glaberman, T. Jefferson, T. Collins, G. Minton, V. Peddemors, R. Baldwin

The Role of genetic diversity in the recovery of the highly endangered north Atlantic and north Pacific right whale. H. Rosenbaum

Bowhead whale genetic diversity and population structure: An exploration of human and climate induced changes in genetic variation. H. Rosenbaum, G. Amato

An investigation of the responses of coral reefs to global climate change. A. Baker

ISACH: A coordinated regional effort and advanced database for humpback whale conservation. H. Rosenbaum, P. Ersts, K. Findlay

Conservation genetics of small populations of baleen whales in the northern Indian Ocean. H. Rosenbaum, G. Minton, T. Collins, R. Baldwin

North America

TRI-STATE NEW YORK METROPOLITAN REGION

Working with local planners to integrate biodiversity conservation in Connecticut and New York (Croton-to-Highlands, Wallkill Valley, and Farmington Valley). M. Klemens, H. Gruner, N. Miller, J. Schmitz

Eastern Westchester Biotic Corridor. M. Klemens

Public-private land stewardship in Rockefeller State Park Preserve and private lands. M. Klemens, N. Miller, K. Ryan, J. Vellozzi

Assessing needs and opportunities for biodiversity conservation through local land-use planning in New Jersey. M. Klemens, N. Miller, J. Schmitz

Counteracting the effects of sprawl through "Smart Growth" local land-use planning. M. Klemens

Conservation of amphibians and reptiles in the Tri-State NY Metro Region. M. Klemens, H. Gruner, K. Ryan

ADIRONDACKS

Boreal birds and their habitats in the Adirondacks. J. Jenkins, M. Glennon

Bicknell's thrush on Whiteface Mountain Ski Area. M. Glennon, L. Karasin

Adirondack Communities and Conservation Program. Z. Smith, L. Karasin, H. Kretser

Adirondack Living Landscapes Program. M. Glennon, A. Keal

Adirondack Cooperative Loon Program. N. Schoch, A. Sauer, M. Glennon, V. Trudeau, D. Adams, D. Evers, F. Realbutto

Adirondack Atlas. J. Jenkins, A. Keal

Black Bear Education, Awareness and Research Program (BBEAR). Z. Smith, M. Glennon, L. Karasin

Using Geographic Information Systems (GIS) as a community and conservation planning tool. A. Keal

Local impacts of climate change and changes in land use on water quality and the winter economy in the Adirondacks: A case study of the Consortium for Atlantic Regional Assessment. A. Fisher, R. Dempsey, L. Karasin

Developing a waterfront revitalization strategy for the towns of Clifton and Fine. Z. Smith, L. Karasin, A. Keal, R. Curran

Social and ecological implications of low-density, exurban development in the Adirondacks. H. Kretser, M. Glennon

SOUTHERN APPALACHIANS

Use of bridges and road structures by wildlife in Virginia. W. McShea and partners

The interaction of deer and invasive plant species on forest biodiversity. W. McShea and partners

White-tailed deer overpopulation, impacts, and movement. W. McShea and partners

Indiana bat (*Myotis sodalists*) ecology. W. McShea and partners

High-elevation bird survey. W. McShea and partners

Clarke County, Virginia biodiversity land-use survey. W. McShea and partners

CANADA

Conservation planning and research in Ontario's Northern Boreal Forest. J. Ray

Wolverine research, conservation, and recovery in northern Ontario. J. Ray

Human Footprint analysis in the northern Appalachians. G. Woolmer

Trans-boundary conservation planning in the northern Appalachians and the northeastern mesocarnivore initiative. J. Ray

Nahanni grizzly bear surveys: Redesign of a National Park and World Heritage Site. J. Weaver

Crowsnest Pass Highway: A crucial link for carnivores. J. Weaver, P. Paquet, and C. Apps

Using models to define wildlife corridors in the Crowsnest Pass.

C. Chetkiewicz
Taku River Tlingit First Nations capacity building. D. Reid
Hares and lynx in boreal British Columbia. D. Reid
CPAWS Yukon Conservation Strategy. J. Ray, D. Reid, C. Groves, A. Rabinowitz

GREAT LAKES
Lake superior wolf conservation. A. Treves, L. Naughton
Analyzing lethal and non-lethal control to manage wolf depredation. A. Treves, L. Naughton.

PACIFIC WEST
Wildlife, fire and forest management. S. Zack, K. Farris, and partners
Effect of Sudden Oak Death syndrome on wildlife in the Pacific West. K. Fischer
Ecology and conservation of the Pacific fisher on the Hoopa Valley Reservation. S. Matthews and partners
Woodpeckers and snag dynamics. S. Zack, K. Farris, and partners
Riparian restoration, beavers and songbirds. S. Zack, H. Cooke, and partners
Conservation of salmon-driven ecosystems. S. Zack

ARCTIC COASTAL PLAIN
Tundra nesting birds, predators, and development in the Arctic Coastal Plain. S. Zack, J. Liebezeit, and partners
Exploration of Biologically Special Areas in the National Petroleum Reserve. S. Zack, J. Liebezeit.
Exploration of Arctic Aquatic Systems. B. Weber

WESTERN MOUNTAINS
Wolverine ecology and conservation. R. Inman, K. Inman, and partners
Cougar Ecology and cougar/wolf/bear conservation. T. Ruth, P. Buotte, and partners
Carnivore connectivity in the Centennial Mountains. J. Beckman
Pronghorn migration conservation. J. Berger, K. Berger
Conservation in native communities. J. Hilty, S. Grassel
Setting priorities for wildlife conservation. C. Groves, B. Brock, A. Toivola, and partners
Impacts of motorized recreation on wildlife. R. Inman, C. Groves
Wildlife and energy development in the Rocky Mountains. J. Berger, K. Berger, J. Beckmann
Highway impact on wildlife on the Flathead reservation. W. Maillat,

J. Hilty
Restoration of white-tailed jackrabbits in sage ecosystem. J. Berger, K. Berger

NEW MEXICO
New Mexico black bear conservation. C. Costello

CROSS-CONTINENTAL
Development of the large carnivore guild model. A. Rabinowitz

Central

NEW YORK
WASHINGTON, D.C.
Science and Exploration Program. G. Schaller, A. Rabinowitz
Living Landscapes Program. A. Vedder
WCS Institute. K. Redford
Hunting & Wildlife Trade Program. E. Bennett
Conservation Policy Program. L. Krueger
Training and Capacity Building Program. W. Banham, M.L. Penn
Foundations of Success. R. Margoluis, N. Salafsky, M. Brown, J. Davis, C. Stem.
Conservation Finance. C. Quintela, R. Victorine, C. Rastas
BP Conservation Awards Partnership. J. Robinson, W. Banham
Zoological Society of London Collaboration. M. Hatchwell
Species Survival Commission, IUCN. H. Dublin, J. Robinson
State of the Wild annual conservation publication. S. Guynup, J. Bruschini
Engaging local people in wildlife conservation: A survey of WCS approaches. A. Vedder
People and Parks: Assessing the human welfare impacts of establishing protected areas for biodiversity conservation. D. Wilkie
The Mannahatta Project. E. Sanderson
Bronx River Historical Ecology. E. Sanderson
Monitoring of large wildlife directly through high spatial resolution remote sensing: experimental and in situ approaches. S. Bergen, E. Sanderson
Decision support for the Convention on Biological Diversity 2010 Goal: Guidance on the application of remote sensing techniques for measuring the rate of biodiversity loss. E. Sanderson



Stepping down

Bill Weber has worked for 30 years in the field of international conservation, 22 of those with WCS. Beginning in 1979, Weber and Amy Vedder launched the WCS Mountain Gorilla Project in Rwanda, which is chronicled in their book *In the Kingdom of Gorillas*. Weber then directed WCS's Africa Program, helping to build a strong set of projects and staff in the rain forests of the Congo Basin. In 1994, Weber relaunched the WCS North America Program, believing that we should promote the same high standards for conservation here as we do in much poorer countries. Key issues include energy development, forest and fire management, predator recovery, rural sprawl, outdoor recreation, and the overall need to insert science into public lands management. This year, Weber stepped down as North America Program director to concentrate on writing and speaking engagements, while continuing to advise WCS programs in Africa and North America. His interdisciplinary perspective and vast experience will continue to make Weber an invaluable WCS resource for years to come.

This year, Public Affairs capitalized on the potential of our public and private partnerships, motivated our public audience to help WCS exceed its goals, and built a growing constituency of people who care about wildlife conservation. With increasing support from our corporate sponsors and city, state, and federal partners, as well as the hundreds of thousands of zoo visitors and concerned citizens in our "Take Action" coalition, WCS has become a leading conservation organization in the public arena.

Government and Community Outreach

WCS continued to expand its presence and valuable conservation alliances in federal policy-making. In June, Amy Vedder testified before the House Resources Committee and urged Congress to continue the highly successful Great Ape Conservation Fund, which supports field conservation for six ape species in Africa and Asia. The WCS Wildlife Health Center worked with Congresswoman Nita Lowey on legislation to better direct U.S. efforts to prevent and respond to emerging diseases, such as avian flu, that threaten humans, domestic animals, and wildlife. Additionally, WCS worked with Congress on Bioshield II, bio-security legislation to control intentional or naturally occurring health threats to humans, livestock, and wildlife at their origins.

WCS spearheaded the creation of the International Conservation Caucus (ICC), comprised of 100 members of Congress dedicated to preserving biodiversity globally. This year, the ICC led efforts to preserve and increase funding for many critical programs, including the Global Environment Facility and the Congo Basin Forest Partnership.

As a follow-up to the Public Policy Committee's passage of a WCS policy against keeping primates as pets, WCS joined a coalition of concerned organizations and members of Congress to pass the Captive Primate Safety Act to prevent the interstate trade of primates as pets. WCS continues to advocate for passage of the Great Cats and Rare Canids Act to provide U.S. funding for the conservation of 13 species of great cats and rare canids beyond U.S. borders.

As a result of our strong partnership with the City of New York and our City Council Outreach Program, WCS received \$48 million in capital funds for all five New York facilities, approximately half of which is new funding. In addition to securing committed and new funds for a shark exhibit at the New York Aquarium and big cat exhibits at the City Zoos, WCS secured new funds for the Bronx Zoo's Wildlife Health Center and Italian Fountain. In addition, WCS worked with the City Council to develop a \$6.4 million cultural after-school initiative, a portion of which will be used to develop a program for New York City cultural institutions. WCS also secured \$8.2 million from Congress through the Transportation Equity Act

Reauthorization (TEA-3) for a new parking facility at the Bronx Zoo, which will address parking shortages and offer park and ride alternatives to area commuters.

Community Affairs made strides in connecting WCS's global conservation mission to our local communities. We established a relationship with the United African Congress (UAC), a major organization that represents Africans living in the United States, currently the largest new immigrant group in New York.

The Bronx Zoo has one of the most spectacular stretches of the Bronx River within its boundaries. Working with the City Parks Department, Westchester Parks, and a host of community groups during the Bronx River BioBlitz, volunteers recorded data on the flora and fauna in and along the Bronx River. The keynote press conference was held at the Bronx Zoo with Congressman Joseph Crowley and City Parks Commissioner Adrian Benepe. A simultaneous Internet conference was convened with like-minded conservationists in Germany.

The new Butterfly Garden was celebrated by children and adults from the New York City Housing Authority and community gardens, all partners in WCS's Butterfly Project. In collaboration with the New York Botanical Garden, Parks Department, Green Thumb, and New York Restoration Project, as well as participating community gardens, this community-based project has developed a network of Butterfly Conservation Areas (BCA) that form oases for migrating and foraging butterflies. For the third consecutive year, the Bronx Zoo promoted literacy in project T.I.G.E.R. (Together In Getting Everyone Reading) with Community Region One, Community School Districts 9 and 10. *The New York Times* published a page one photograph featuring this year's T.I.G.E.R. award-winner.

Media Outreach

This was the year of monkeys, butterflies, bugs—and an incredibly newsworthy rodent. An online auction for the rights to name a new monkey discovered by WCS's Rob Wallace in Bolivia generated more than \$650,000, along with press coverage to match that astounding sum. From *60 Minutes* to *The New Yorker* to the *Ellen DeGeneres Show*, national and international media covered Wallace's work and WCS's innovative use of the Internet to raise funds for the protection of the new species' habitat.

The Bolivian discovery was preceded by news that WCS researchers had identified a new primate in India,

Hatchlings and other individual animals at WCS's Living Institutions (right, an American flamingo chick at the Bronx Zoo) received significant media attention this year. Three new primate species and a new family of rodent discovered by WCS field scientists were covered extensively by print and television media.



and it was followed by the discovery of a third new monkey species, by WCS staff in Tanzania. Both of these stories garnered major attention, but were dwarfed by interest in another WCS announcement: While perusing a hunter's market in central Laos, field researcher Robert Timmins discovered a long-whiskered rodent so unique it represents an entirely new family of wildlife. Press cover-

Efforts to expand WCS stories beyond the *Science Times*—in which WCS stories appear on an almost bi-weekly basis—were successful. Features and news sections in the newspaper highlighted a bird-banding project on Bronx Zoo grounds, a field and zoo collaboration on a new animal censusing technique via satellite, photo essays on penguins at the Central Park Zoo and Bronx Zoo,

This year, Public Affairs capitalized on the potential of our public and private partnerships, motivated our public audience to help WCS exceed its goals, and built a growing constituency of people who care about wildlife conservation.

age included *The Washington Post*, Associated Press, and even an editorial in *The New York Times*. A rediscovered animal made big news, too, when a male batagur, a turtle species once thought extinct in Cambodia, was saved from smugglers by sharp-eyed wildlife inspectors who discovered a microchip implanted by WCS staff to track the turtle's whereabouts.

a retrospective of retired WCS photographer Dennis DeMello's work, and Eric Sanderson's Human Footprint project. WCS also made the opinion page of *The New York Times*'s sister paper, the prestigious *International Herald Tribune*, which featured an op-ed written by WCS President and CEO Steven Sanderson, titled "Killing Civets is Not the Way to fight SARS."



Sometimes a Butterfly Captures a Girl

Charlotte, North Carolina



TV star Ellen Degeneres donated an outfit and several pairs of sneakers for auction.

Ellen's monkey business

Around Town

American revolutions

A new carousel joins the merry-go-round revival

The carousel, once a staple of American childhood, has been making a comeback in recent years. In 2007, the carousel industry reported a record number of new installations, with more than 100 new carousels added to the landscape. The resurgence is due to a variety of factors, including the popularity of the carousel as a family-friendly attraction and the growing interest in historic preservation. In New York City, the carousel has become a popular sight at the Bronx Zoo, where it has been a part of the zoo's history for over a century. The carousel is a symbol of childhood and a reminder of the simple pleasures of life.



A green and yellow mantis.

Spin city

Go carousels spinning in three boroughs

Last Christmas, a carousel was installed at the Bronx Zoo, marking the first time in over a century that a carousel has been added to the zoo's collection. The carousel is a symbol of childhood and a reminder of the simple pleasures of life. It is a place where children can enjoy the ride and the zoo can provide a fun and educational experience for its visitors. The carousel is a part of the zoo's history and a symbol of the zoo's commitment to providing a high-quality experience for its visitors.



Below, right: a male humpback penguin, mating with Serapii.

New Love Breaks Up a

BUSHMEAT ON THE MENU

Untangling the influences of hunger, wealth, and international commerce

BY SUSAN MILIUS

GORILLAS SPOTTED USING TOOLS IN THE WILD



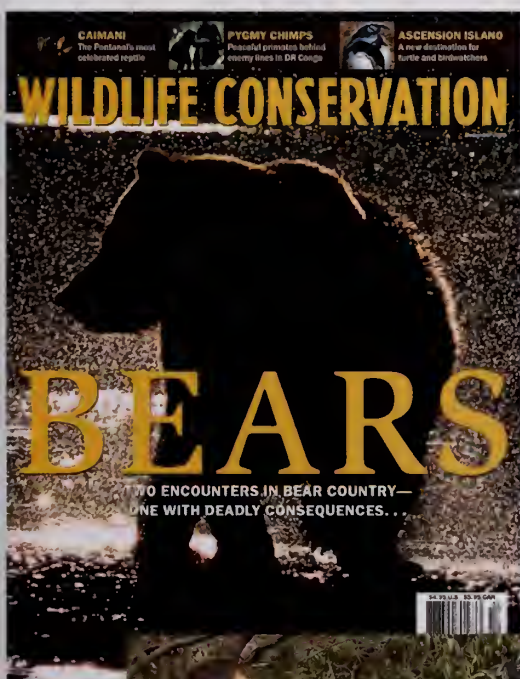
Efforts to publicize the Bronx Zoo's Butterfly Garden and its one-of-a-kind Bug Carousel generated attendance-driving press, including key print and web outlets, and family-oriented features on NY1 and WNBC-4. Fox 5's popular early morning show, *Good Day New York*, and well-known reporter Penny Crone visited all our zoos and the Aquarium this year for live remote broadcasts. Other television coverage, to increase both attendance and awareness, included CNN, MSNBC, Fox, 60 Minutes, *The Today Show*, *Good Morning America*, *The Tonight Show with Jay Leno*, MTV, and VH1. At the Bronx Zoo, mammal keeper Carlos Flores was "made over" for the popular national show *Queer Eye for the Straight Guy*, and trips to Tiger Mountain and Congo Gorilla Forest became major segments on Animal Planet's *Ultimate Zoo* series.

Animal Planet's *Whoa! Sunday* featured WCS's Hans Walters and Ramón Bonfil for a two-hour special on

The WCS Public Affairs marketing and media outreach programs vary from our bimonthly magazine *Wildlife Conservation*, to zoo and aquarium attendance-driving billboards, to the launch of *State of the Wild*, a new WCS book series in which renowned scientists assess the current condition of wildlife and wilderness.

sharks. The opening of Glover's Reef and the refurbished Bathysphere at the Aquarium brought national media attention. The opening of SeaSide Café and a local Fireman's Chili Cook-off drew rave reviews. Live remotes were a hit at the Aquarium this year with NY1, WNBC-4, Fox5, and WB11. A feature story on animal enrichment with the Aquarium's turtles appeared in the *Daily News* to coincide with the WCS ICEE Conference. Congo Gorilla Forest was featured in the PBS *Nature* series on gorillas, along with interviews by WCS experts from both the Living Institutions and International Conservation.

Our partnership with the National Geographic Society remains a key tool for telling millions about WCS's work around the world. In 2005, WCS biologist Mike Fay led the MegaFlyover, a joint WCS and National Geographic expedition through parts of Africa, which is yielding invaluable data that will help make the case for international support to save the continent's wildlife. As part of this initiative, the September 2005 issue of *National Geographic* magazine featured two major articles and a full-size insert map about WCS's work in Africa and the Human Footprint initiative. Throughout the year, National Geographic's web site—which gets more than 50 million unique visits each month—posted some 40 stories about WCS people and projects.



THE NEW BUG CAROUSEL OPENS JULY 1ST. The merry-go-round at the zoo's fair has finally met its match. The one-and-only Bug Carousel at the Bronx Zoo will fill the air with the sound of laughter as your kids ride atop several different kinds of giant, colorful bugs. And be sure to bring the entire family because with 70 seats aboard this year-round ride, the fun is as endless as a child's imagination.

MARK YOUR CALENDARS

JULY 2-4 BUGFAIR JULY 9 IN THE YALDS
AUG. 4 TIGER GO WILD
SEPT. 3-6 BETRO WEDDING
SEPT. 9-10 BRIDALMAIDENS WEDDING

By mid-July, before the 2 or the 5
april to East Prospect Ave.
To learn more, go to our site: the
Bronx Zoo's website to East 3 and
visit our site on-site parking.
It's that time, the more information
about the event.

BRONX ZOO
1 212 675-7111 1 212 675-7111

A New Kind of Rat

THERE'S A NEW FAMILY OF RODENTS—the first new family of mammals created since 1974, when the humble bat was discovered. Rob Timmins, a field scientist with the WCS's Lao program, was among several researchers to discover a long-whiskered rodent with stubby legs and a thick, furry tail (drawing at right). After DNA and skeletal analyses, the researchers decided that this animal is so distinct from all living rodent species, it should be placed in a new family, which they named the *Leontiniidae*.
The Laoan rat rat, *Leontides argenteus*, first surfaced for sale as meat in a market in Khammouan Province nearly ten years ago. Other specimens were located in villages and in an owl pellet, and then additional rats were trapped. They appear to inhabit hillside studded

with limestone boulders. Lao people trap the rats, which they call *shay-yeen*, for food.

In 1999, Timmins found a new species of striped rabbit in the same area. "Scientists might say that if we are still discovering amazing new animals, why are people worried about wildlife loss," he says. "Of course, these discoveries are an indication of how little we know, and a window onto what we could be losing without ever knowing."



WILDLIFE CONSERVATION SOCIETY
With a Special Section
HUNTING AND THE WILDLIFE TRADE





Central Park Zoo remained a popular location for the entertainment industry, serving as a backdrop for an episode of *Law & Order*, and the Will Smith movie *Hitch*. The animated movie *Madagascar*, starring fictitious wildlife residents of the Central Park Zoo, essentially provided a feature-length advertisement for WCS's jewel on Fifth Avenue.

In a new marketing strategy, *Wildlife Conservation* magazine prepared a special issue for a promotional campaign to boost sales. "Great Explorations!" takes readers along on the adventures of WCS international field scientists, past and present, as they fulfill the society's leadership role in sound science, exciting exploration, and devotion to wildlife conservation. The Bronx Zoo's new Butterfly Garden was featured on the cover of the June 2005 issue, and the December 2004 issue reported on the work of more than 30 WCS scientists in 10 countries who are trying to save the jaguar. Beginning with the January 2005 issue, a new creative team redesigned the magazine cover and overall look to better reflect WCS's mission to secure a future for all species, including our own.

Marketing, Sales and Corporate Partnerships

This year we launched "Why Not Today?" a family-focused advertising campaign supported by a host of outreach, communications, and event initiatives. Through rigorous attendance-building planning sessions among many stakeholders, we identified target audiences and key tactics and programs to achieve measurable results. We piloted "Street Teams" and tabling opportunities throughout key geographic areas, built a robust consumer promotions program to advance shoulder-season attendance, and tailored

public events to reach specific audiences within the community. Through such programs, we successfully reached the annual attendance goals at the Bronx Zoo and New York Aquarium.

The grassroots email database program started in 2004 is growing, and provides timely and relevant communications to potential visitors. We will continue to build this cost-effective program, now with well over 200,000 constituents.

Advertising for Queens and Prospect Park Zoos is supported by the Parks Department as part of our partnership to help raise attendance for these facilities and ease the financial commitment they pose to the city. The ads promoted the new Season Park Pass that allows visitors to Queens and Prospect Park Zoos unlimited visits for one year.

WCS Online Services helped to bring in \$1.6 million in revenue for the Admissions/Group Sales, Membership, and Education programs. In addition, we developed a robust advertising banner program on the WCS web properties. Banners allow us to actively promote specific events, weekends, particular animals, and exhibit openings throughout our many sites, thus reaching the 15,000-plus unique visitors a day.

The WCS Corporate Partnership program continues to grow at about 10 percent each year, and is now at more than \$1.5 million annually, with an additional \$1.2 million in in-kind and promotional value. Major partnerships, such as Delta Airlines and the *Daily News*, have joined the portfolio, and they have provided WCS with added value and exposure in the marketplace. The Group Sales Department has grown substantially over the past few years, to currently generate \$1.7 million in gross revenue, with a 68 percent profit margin.



This page, clockwise from above: VH1 "Save the Music" spokesperson Angel and Nickelodeon character SpongeBob™ SquarePants flip the switch at Holiday Lights; opening of the Bronx Zoo's Butterfly Garden; Director of Science and Exploration Alan Rabinowitz in Washington, D.C. to help launch the Great Cats and Rare Canids Act; New York City Councilman Joel Rivera presents \$5 million check for the Wildlife Health Center; Fireman's Chili Cook-off at the Aquarium's new Sea-side Café; New York State Senator Ruth Hassell Thompson helped bring the Wildlife Theater Players to the Bronx Zoo. Opposite: participants in the ICEE conference, hosted by WCS.



JOEL RIVERA
 CITY LEADER
 U.S. 15
 1901
 DATE Fiscal Year 200



financial report

The Wildlife Conservation Society ended the 2005 fiscal year on June 30 in a strong financial position. Operating revenue and support exceeded expenditures by \$1.1 million, seven-tenths of one percent, driven by strong private contributions and government grant support and sustained, robust attendance and related earned revenue at our wildlife parks. Total WCS assets reached \$715 million, as investment funds and donor commitments increased substantially.

Operating revenue and support rose by 6 percent from the prior year to a new total of \$153 million. WCS finances are well served by a diversified revenue base. Contributions increased 18 percent from the prior year, to reach a new high of \$44 million, providing 29 percent of total operating support. The continued beneficence of the Robert Wilson Challenge Match provides a vehicle to attract new gifts and grants for international conservation. Corporations, foundations, and WCS trustees and friends generously increased their support of WCS core activities. Visitation to our five parks exceeded four million. Audience-driven revenue from admissions, membership, and guest services totaled nearly \$47 million, representing 30 percent of the revenue base. The City of New York provided \$25 million in operating support for park operations, 17 percent of total revenue; and investment income from the WCS endowment reached \$16 million and provided 10 percent of operating support.

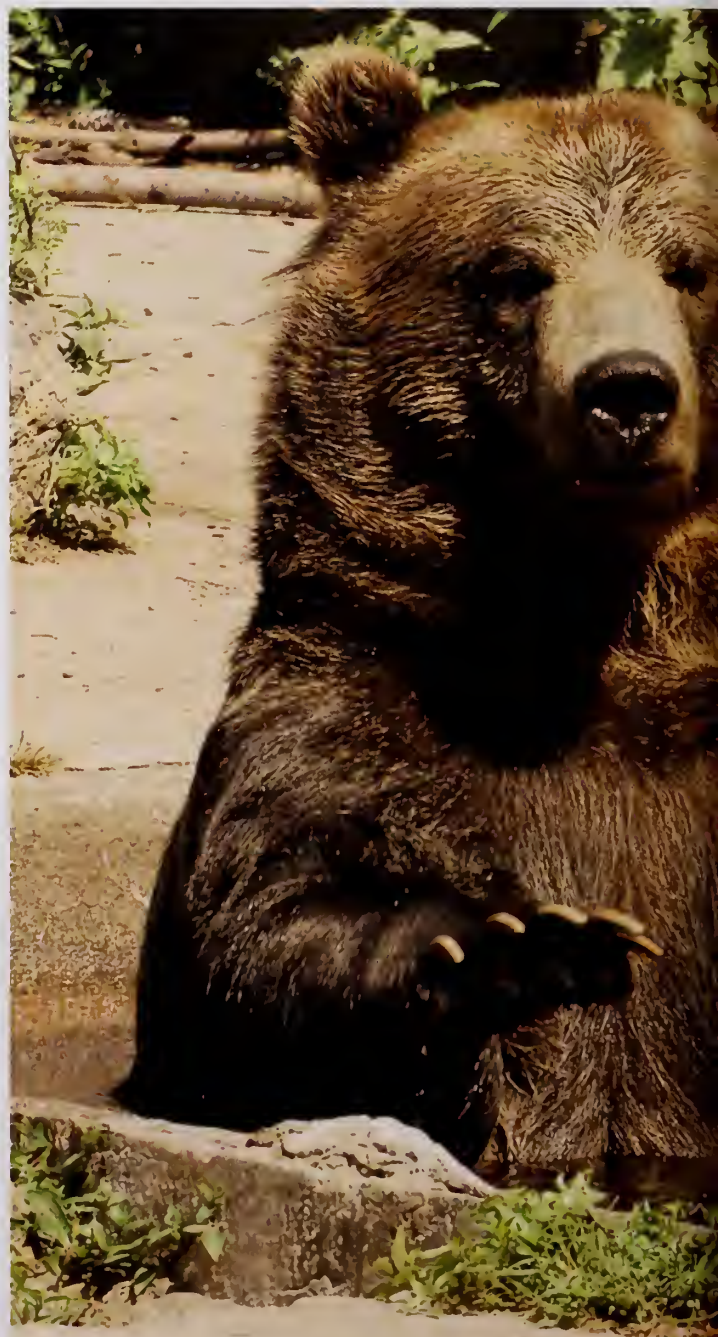
Operating expenditures totaled \$152 million. Program services expenditures and on-site visitor-related costs were \$132 million, increasing 6 percent in total. Expenditures for International Conservation activities rose again this year, to \$48 million—a 10 percent increase. Expenditures in our Living Institutions totaled \$70 million, increasing 5 percent in the aggregate. Controllable core expenses in many areas remained flat, as expense control is an important part of our budget-balancing efforts.

However, WCS is a labor-intensive organization and continues to absorb increases in staff costs, most notably higher required pension contributions and health insurance premiums. Administrative and support services, including fundraising and membership, were nearly \$18 million, as selective investments continue to be made in financial, legal, fundraising, and other administrative services to effectively manage our growing programmatic activities in New York and around the world. Still, support services make up a lean 12 percent of the expense base.

Three years ago, WCS began to set aside a portion of unrestricted income to form a facilities renewal fund to support with recurring revenues a portion of the growing infrastructure, equipment, and technology needs of our aging facilities; in 2005 that fund totaled \$2.7 million. Capital expenditures totaled \$27 million, double that of the prior year, as WCS implemented its ambitious capital construction program to address infrastructure renewal

and replacement needs and provide new and reinvigorated exhibits at the Bronx Zoo and the New York Aquarium. This spending was supported by tax-exempt bond proceeds, private gifts, and government support. Capital expenditures included completion of the Bronx Zoo's new Butterfly Garden and Bug Carousel, and the opening of Seaside Café and oceanic exhibit at the New York Aquarium. Restoration of the historic Lion House continued apace, financed by New York City and WCS funds. Capital expenditures also supported vital upgrades in telecommunications and information systems.

Investment assets increased by \$38 million, to a market value of \$415 million—driven by positive invest-



ment return, new gifts to endowment, and the receipt of more private funds supporting programs and capital projects. Endowment and other donor funds are invested in a well-diversified portfolio, and produced a total return of 8.6 percent for the fiscal year, beating returns in major investment indexes. Donor pledges for future support of operating and capital activities grew by \$11 million, to \$26 million. Donor pledges included a generous commitment by the Goldman Sachs Charitable Fund to provide endowment support for conservation activities in the vast properties on Chile's Isla Tierra del Fuego, gifted to WCS by Goldman Sachs, and for other WCS activities in the region. It is important to note that funds held by bond trust-

ee declined by \$17 million to \$43 million, as WCS utilized bond proceeds for construction purposes.

FY 2005 marked the fourth year of improving financial performance, and the second year of positive operating results. We are in the midst of an exciting capital construction program to provide a coherent set of park improvements aimed at further strengthening mission activity and revenue, and enhancing the visitor experience. Financial planning activities remain focused on further increasing and diversifying our revenue base, boosting park attendance, supporting our outstanding staff in New York and in the field, and becoming one of the best managed global conservation organizations in the world.



Operating Revenues and Expenses

YEAR ENDING IN JUNE 30, 2005
(COMPARATIVE AMOUNTS FOR 2004)

REVENUE	2005	THOUSANDS	2004
Contributed	\$43,986		\$37,449
Membership dues	8,161		8,246
Investment income	15,665		15,854
City of New York	25,373		23,669
New York State	2,027		2,448
Federal agencies	11,151		10,521
Non governmental organization grants	2,959		3,008
Gate and exhibit admissions	21,343		22,249
Visitor services	16,963		16,667
Education programs	1,662		1,355
Sponsorship, licensing, and royalties	2,262		1,626
Other	1,595		1,896
Total Revenue	\$153,147		\$144,988
EXPENDITURES			
Program Services			
Bronx Zoo	45,283		43,002
New York Aquarium	11,088		10,243
City Zoos	13,755		13,706
International Programs	48,241		43,777
Wildlife Conservation Magazine	1,351		1,351
Lower Bronx River Habitat Conservation	953		1,923
Total program services	120,671		114,002
Visitor Services	10,964		10,122
Supporting Services			
Management and general	11,994		10,236
Membership	2,271		2,454
Fundraising	3,496		3,296
Total supporting services	17,761		15,986
Plant Renewal Funding	2,700		4,000
Total Expenses and Plant Renewal Funding	152,096		144,110
Excess of Revenues Over Expenses and Plant Renewal Funding	\$1,051		\$878

A copy of the audited financial statement is available upon request.

Consolidated Balance Sheets

ASSETS	2005	THOUSANDS	2004
Cash and cash equivalents	\$23,245		\$38,355
Accounts receivable	2,125		2,169
Receivable from the City of New York	4,267		7,076
Receivable from the State of New York	3,252		3,436
Receivable from Federal sources	24,019		22,340
Grants and pledges receivable	25,927		15,317
Inventories	1,501		1,506
Prepaid expenses and deferred charges	8,320		8,198
Investments	414,997		376,688
Amounts held in trust by others	982		933
Funds held by Bond Trustee	43,080		60,574
Propertry and equipment	162,962		148,225
	<hr/>		<hr/>
Total Assets	\$714,677		\$684,817
LIABILITIES AND NET ASSETS			
Accounts payable and accrued expenses	\$17,665		\$21,212
Amounts held on behalf of others	252		3,000
Annuity liability	2,545		2,659
Borrowing under line of credit	2,000		
Bonds payable	66,787		66,831
Post retirement benefit obligation	15,888		14,718
	<hr/>		<hr/>
Total Liabilities	105,137		108,420
Net assets:			
Unrestricted:			
Designated for long-term investment	161,992		152,050
Investment in property and equipment	142,122		143,658
	<hr/>		<hr/>
Total Unrestricted	304,114		295,708
Temporarily Restricted	101,406		83,961
Permanently Restricted	204,020		196,728
	<hr/>		<hr/>
Total Net Assets	609,540		576,397
	<hr/>		<hr/>
Total Liabilities and Net Assets	\$714,677		\$684,817

A copy of the audited financial statement is available upon request.

events





The Wildlife Conservation SAFARI!, WCS's annual Spring Gala, was held on May 18 at the Central Park Zoo. More than 600 guests enjoyed cocktails around the Sea Lion pool, dinner in one of three South American themed tents, and an exhilarating live auction hosted by Sotheby's, Inc. and C. Hugh Hildesley.

Tiffany & Co. was honored for their unwavering commitment to conservation efforts worldwide. Josie and Julian Robertson were Honorary Event Chairs. Gala

Co-Chairs were Katharina Otto-Bernstein and Nathan Bernstein, Allison and Leonard Stern, Ann and Andrew Tisch, and Ann and Thomas Unterberg.

Opposite page, clockwise from top left: WCS Trustee and Gala Co-Chairs Katharina Otto-Bernstein and Nathan Bernstein; WCS Trustee Jane Alexander and WCS Advisor Pamela Thye; Michael and Paola Schulhof and WCS Chairman of the Board David T. Schiff; WCS Trustee and Honorary Event Chairs Julian and Josie Robertson; Sotheby auctioneer Hugh Hildesley, David T. Schiff, Alta Thorne, WCS Trustee Dan Thorne, WCS President and CEO Steve Sanderson; Marcia Mishaan; Jamee and Peter Gregory.

This page, clockwise from top left: WCS Trustee and Gala Co-Chair Ann Unterberg, David T. Schiff, and WCS Trustee and Gala Co-Chair Allison Stern; WCS Trustee and Gala Co-Chairs Andrew and Ann Tisch; Muffie Potter Aston, Debbie Bancroft, Somers White, and Susie Hayes; Steve Sanderson, Tiffany & Co. Chairman and CEO Michael J. Kowalski, and WCS Director of Corporate Relations and Special Events Dale Brooks.







An Animal Affair: A Business Bash at the Central Park Zoo, held on October 5, honored Con Edison and Eugene R. McGrath, Chairman and CEO of Con Edison, for their longtime support of the New York cultural community and conservation worldwide. More than 375 guests enjoyed cocktails by the Sea Lion Pool and dinner under the stars with the penguins and polar bears.

Opposite, clockwise from top left: WCS Trustee Howard Phipps, Jr. and Mary Phipps; Allison Morrow, Goldman Sachs & Co. Managing Director John Rogers, and WCS Trustee Jonathan Cohen; Vice Chairs Susan and Jack Rudin; David T. Schiff, WCS Trustee, Honoree, and Chairman of Con Edison Eugene R. McGrath, and Steve Sanderson; Maureen Day, Tim Griffy, Missy Griffy, Ernst & Young Global Chief Operating Officer and Vice Chair Paul J. Ostling, Sue Frieden, and Ed Fraioli.



Dinner on the Sea, held on September 22, honored Wyland, renowned artist of the sea in recognition of his leadership in promoting aquatic conservation. More than 200 guests enjoyed cocktails and dinner aboard the glasstop *Bateaux New York*.

This page, clockwise from top left: Chairman of the New York Aquarium Committee and Dinner on the Sea Co-Chair Brian Heidtke, Honoree and artist Wyland, and New York Aquarium Director Paul Boyle; Stasi Sotiriadis, Marilyn Sotiriadis, Donna Vientos, and Aquarium Committee member Victor Vientos; Josh Rabinowitz, Jeff Frisch, Aquarium Committee member Bruce Bender, Lisa Ellrodt, Aquarium Committee member Amy Klein, John Ellrodt, Janet Gochman, and Stacey Frisch; Event Co-Chairs Donald Zucker and WCS Trustee Barbara Zucker, Robert Schneider, and Marion Cassata; Steve Sanderson, David T. Schiff, Wyland, and Paul Boyle.



events





An Evening at the Central Park Zoo, an annual event hosted by the Conservation Council, was chaired by Stephanie Borynack, Christopher Manice, and Lauren Kisner. Held on May 18 at the Central Park Zoo, the event supports WCS's local and global wildlife conservation efforts. More than 900 guests gathered for cocktails, buffet dining, and dancing into the early morning hours.

Opposite, clockwise from top left: Emilie Vasu, Sana Sandberg, Vaughn Massey, and Conservation Council member Melissa Berkelhammer; Conservation Council member Mary Dailley Pattee; WCS Trustee Merritt Paulson and Heather Lynne Mahar; Conservation Council member Merrill Hanley, Lilly Bunn, and Lyle Rodenberg; Dan Entwistle, Conservation Council Co-Chairs Lauren Kisner, Christopher Manice, and Stephanie Borynack.



The *Explorers' Party*, which raises funds for WCS Education Programs, was chaired by Celeste Boele and Ann Coley and Patron Chair Jackie Hennessey. Held at the Central Park Zoo, on May 24, and hosted by the Explorers' Party Committee, the event welcomed more than 700 guests with fun food, live music and creative crafts, activities, and games for kids of all ages.

This page, clockwise from top: Niki Coley and Explorers' Party Committee Co-Chair Ann Coley, Explorers' Party Patron Chair Jackie Hennessey with Owen, Connor, and Ryan Hennessey; Explorers' Party Committee member Dayssi Olarte de Kanavos and Nicholas Kanavos; Explorers' Party Committee Co-Chair Celeste Boele, Clio Boele, and Madeleine Mogul.





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Butterfly Garden and Bug Carousel Reception: Donald Zucker, WCS Trustee Barbara Zucker, and WCS Chief Creative Officer John Gwynne with Butterfly Garden Pond bronze frog.

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Shane LeClair, *Assistant Project Manager*

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Jenny Lee, *Senior Landscape Designer*

Jennifer Horn, *Landscape Architectural Designer*

Tonya Edwards, *Junior Landscape Designer*

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Colleen McCann, *Curator, Primates*

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Bryan Robidas, Gina Savastano,
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Dolan, Gilbert Gordian, Jr.,
Loraine Hershonik, Florence
Klecha, Kathleen MacLaughlin,
Douglas Mase, Joan McCabe-
Parodi, Jeffrey Munson, Karen
Napolitano, Jason Rowe, Nichole
Shelmidine, Gerard Stark, Jose
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Kathleen Boyce, Travis Brady,
Heath Bruscatto, Anthony Buffill,
Wendy Canino, Francisco Cruz,
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Kenneth Jones, Vanessa Jones,
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Nugent, Kristin Patti, Jonathan
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Salemi, Andrea Spence, Sabrina
Squillari, Monika Stroerber,
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Giacomara, Tasha Hook, Tim
Mohl, Jeremy Sanders, Ramsay

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Jesus Padilla, Gary Robinson,
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Bonet, Roopnarine Maharaj,
Jose Martinez, Ramon Mendoza,
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Nelson Prado, Robert Santarelli,
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Hosein, Timothy Magee,
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Bernadine Leahy, *Senior Veterinary
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Fries-Kmiotek, Barbara Fung,
Ira Goldman, James Luedtke,
Susan Makower, David Morales,
Samaly Pastor, James Putnam-
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McEachron, Carlton Nelson,
Rafael Nieves, William Rosado,
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Shankar, Allan Taylor, *Assistant*

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Alicia Prashad, *Ticket Agents*

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Lessnau, *Senior Zoologists*

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Jennifer Savage, *Zoologists*

Terry Norton, *Veterinarian*

Kathryn Lurtz, *Veterinary
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Lisa Mielke, *Assistant Curator*
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Michelle Stagnitta, *Volunteer Coordinator*
Melissa Carp, Janipher Chan, *Instructors*
Gary Holliday, *Coordinator, Outreach Services*
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Jonathan Eilers, *Senior Instructor, Theater Coordinator*
Nicole Greevy, Brianne Pulis, *Instructors*
Susan Peirez, *Outreach Coordinator*
Jane Donnelly, *Volunteer Coordinator*
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Emily Pinkowitz, *Community Outreach Coordinator*

QUEENS ZOO EDUCATION

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Paulette Torres, *Secretary and Registrar*
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Matthew Hatchwell, *European Coordinator*
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Foundations of Success: Richard

Margoluis, *Director*, Nick Salafsky, *Director*, Marcia Brown, Janice Davis, Caroline Stem

Species Survival Commission, IUCN: Holly Dublin, *Chair*

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Jefferson Hall, Graeme Patterson, *Assistant Directors*
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Megan Parker

Cameroon

Roger Fotso, Francois Hiol
Hiol, Ginette G. B. Kombelé-Spinhoven, Terence Sunderland, Jacqueline Sunderland-Groves

Central Africa Republic

Andrea Turkalo

Congo Republic

Philippe Auzel, Inogwabini Bila-Isia, Thomas Breuer, Paul Elkan, Sarah Elkan, Norbert Gami, Mark Gately, Jerome Mokoko, David Morgan, Antoine Moukassa, Genevieve Ondongo, Colby Prevost, Hugo Rainey, Quentin Robb, Crickette Sanz, Emma Stokes, Hilde Van Leeuwe, Moise Zoniaba

Democratic Republic of Congo

Fidele Amsini, Floribert Bujo Dhego, Simeon Dino S'hwá, Corneille Ewango, Falk Grossmann, John Hart, Terese Hart, Omari Illambu, Jose Ilanga, Emmanuel Kayumba, Innocent Liengola, Jean-Remy Makana, Nicole Mathe Musondoli, Leonard Mubalama, Robert Mwinyihali, Benjamin Ntumba Kaciela, Richard Tshombe

Ethiopia

Yirmed Demeke

Gabon

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Akoi Kouadio

Kenya

Laurence Frank, Rosie Woodroffe

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Lantonaiaina Andriamampianina, Aristide Andrianarimisa, Nicolas Blondel, Helen Crowley, Christopher Holmes, Jean Jacques Jaozandry, James MacKinnon,

David Meyers, Césaire Ramilison, Herilala Randriamahazo, Luccianie Raonison

Malawi

Julian Bayliss

Namibia

Kenneth Leggett

Nigeria

Andrew Dunn, John Oates

Rwanda

Michel Masozera, Ian Munanura

Tanzania

Peter Coppolillo, Tim Davenport, Daniela De Luca, Sarah Durant, Charles Foley, Lara Foley, Sophy Machaga, David Moyer, Noah Mpunga, Kirstin Siex

Uganda

Scovia Kobusingye, Deo Kujirakwinja, Alastair McNeilage, David Nkuutu, William Olupot, Isaiah Owionji, Andrew Plumpton

Zambia

Cephas Chewe, Dale Lewis, Mike Matokwani

Zimbabwe

Ferrell (Loki) Osborn

Regional Programs

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Peter Clyne, Peter Zahler, *Assistant Directors*
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China

Xie Yan, Aili Kang, Eve Li

India

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Indonesia

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Iran

Martin Tyson

Kazakstan

Todd Katzner

Lao PDR

Mark Bezuijen, Malykham Doungdala, Troy Hansel, Michael Hedemark, Arlyne Johnson, Souvany Soumany, Renae Stenhouse, Soumalie Sygnavong, Soulisak Vannalath, Venevongphet, Chantavy Vongkhamheng

Malaysia

Cynthia Chin, Melvin Gual, Jason Hon, Norhayani Jalaweh, John Mathai, Mike Meredith, June Rubis, Jephthe Sompud

Mongolia

Amanda Fine, Kirk Olson, Peter Zahler

Myanmar

Daw Bibiana Chit, Will Duckworth, U Saw Htun, U Win Ko Ko, U Kyaw Thinn Latt, U Than Myint, Daw Myint Myint Oo, U Saw Htoo Tha Po, Madhu Rao, U Than Zaw

Pakistan

Mayoor Khan

Papua New Guinea

Banak Gamui, Vidiro Gei, Paul Igag, Andrew Mack, Muse Opiang, Katayo Sagata, Leo Salas, Miriam Supuma, Ross Sinclair, Debra Wright

Russia

John Goodrich, Natasha Karp, Nikolai Kazakov, Dale Miquelle, John Paczkowski, Tanya Perova, Gleb Raygorodetsky, Kathy Quigley

South Pacific

James Atherton, Akanisi Cagitoba, Linda Farley, David Olson, Betani Salusalu, Loraini Sivo, Moala Tokota'a

Thailand

Lamthai Arsanork, Thongbai Charoendong, Nont Keawwan, Petch Manopawit, Panomporn Pathitus, Puntipa Pattanadaew, Anak Pattanavibool, Kwanchai Waitanyakarn

Regional

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Additional Staff: Matthew O'Brien, Alexandra Rojas, Daniela Vizcaino

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Northern Andes

Mauricio Castillo, Félix Daza, Isaac

wcs staff and associates

Goldstein, Carolina Gómez, Gazy Kattan, Gustavo Kattan, Carolina Murcia, José Ochoa, Erika Olmedo, Esteban Suárez, Victor Utreras, Carlos Valderrama, Galo Zapata.

Central Andes

Richard Bodmer, Oscar Castillo, Erika Cuéllar, Rosa Leny Cuéllar, Leticia Faldin, Amanda García, Humberto Gómez, Leo Maffei, Andrew Noss, Michael Painter, Lilian Painter, Roxana Pezo, Pablo Puertas, Omar Rocha, Linda Rosas, Damian Rumiz, Catherine Sahley, Robert Wallace.

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Ana Rita Alves, Sandra Cavalcanti, Almira Hoogesteyn, Miriam Marmontel, Fernanda Marques, Claudia Pereira, Helder Queiroz, Carlos Quintela, Christine Rastas, Ronis da Silveira, Eduardo Venticinque.

Southern Cone

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Africa

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Asia

Brian Smith, Tint Tun, Daniel Afzal, Rizya Ardiwijaya, John Ben, Stuart Campbell, Simeon Daple, Yudi Herdiana, Tasrif Kartawijaya, Roselyn Koi, Mauroa Koru, John Kuange, Michael Marnane, Susy Mawarwati, Ahmad Mukminin, Shinta Pardede, Dipani Sutaria, John Vegala, Joni Wibowo

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Debra Abercrombie, Charles Acosta,

Cathi Campbell, Jacque Carter, Inocencio Castillo, Demian Chapman, Jon Clamp, Brie Cokos, Victoria Cordi, Janet Gibson, Rachel Graham, Sergio Hoare, Rodrigo Hucke-Gaete, Cynthia Lagueux, William McCoy, Anne Meylan, Peter Meylan, Peter Mumby, José Orensanz, Ana Parma, Henk Renken, Enric Sala, Bob Steneck, Danny Wesby

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Western Mountains

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Adirondacks

Michale Glennon, Jerry Jenkins, Leslie Karasin, Andy Keal, Heidi Kretser, Amy Sauer, Nina Schoch, Zoë Smith

Tri-State New York Metropolitan

Michael Klemens, Nick Miller, Jennifer Schmitz

Dispersed Research

Cecily Costello, Bill McShea, Lisa Naughton

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Linda McKeiver, *Executive Assistant*

Gerard Tibbs, Evan Randolph, *Mailroom*

Budget and Financial Planning

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Regina Burke, *Assistant Director*

Cecile Koehler, *Manager*

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Patrick H. Murphy, *Manager/ Finance & Administration*

Robert DiCesare, *Manager/Systems*

Danielle Scire, *Manager/Presentation & Promotion*

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Lysa Roseborough, *Assistant Director/Operations*

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Tony Urrico, *Storekeeper*

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Cynthia Browne, Virgin Colon, Celenia Garcia, *Assistant Unit Managers*

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Charles Braithwaite, Johanna Duran, Denise Guzman, Evelyn Valdes, *Area Supervisors*

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Comptroller

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Talia Ann Aliberti, *Payroll Manager*

Joan Jones, *Accounts Payable Manager*

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Irene Martinez, Vivian Villa, *Cashiers*

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Richard Steck, *Supervisor, Switchboard*

Emilia Valtcheva, *Coordinator, International*

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Michael Mariconda, *Director and Department Head*

Fran Sorge, *Telecommunications Support Supervisor*

Arul Chellaraj, *System Administrator*

Michael Ferrante, *Network Systems Analyst*

Allegra Hamer, *System Analyst*

Marco Marvucic, Joel Papierman, Jonathan Stallone, *Systems Support Specialists*

Donna Herrera, *Customer Support Supervisor*

Joseph Padilla, *Audio-Visual Support Specialist*

Byron Patten, *Audio-Visual Technician*

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 Peggy O'Shaughnessy, *Manager, Financial Systems Project*
 Kevin Gorman, *Laura Perozo, Finance Managers*
 Clarissa Cylich, *Budget Manager*

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 Frances Lupo, *Supervisor*
 Walter Aufseeser, *Purchasing Agent*
 Brenda Diaz, *Purchasing Specialist*
 Jeanmarie Barrett, *Gina Liranzo-Estrada, Clerks*

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 Lauren Rabin, *Director of Development Operations*
 Dale Ann Brooks, *Director of Corporate Relations and Special Events*
 Tiffany Reiser-Jacobson, *Director of Campaign Communications and Events*
 Linde Ostro, *Director of Foundation Relations*
 Patricia B. Park, *Director of Major Gifts*

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 Susan Cooper, *Information Systems*
 Carolyn Gray
 Lisa Synoradzki
Foundation Relations
 Kate O'Malley Patke, *Individual Giving*
 Sophia Primps
 Olivia van Melle Kamp
Global Conservation

Development Officers

Lynette Ardis, *Patrons Program*
 Chandra Towers Blatt, *Planned Giving*
 David Cartwright, *Susan Stenquist*
 Monserrat, *Silvina Wehmüller, Foundation Relations*
 Mary Beth Gaffney, *Information Systems*
 Amy Hersh, *Corporate Relations*
 Abigail Hourwich, *Research*
 Michelle Kahn, *Special Events*
 Adah Sylvan, *Major Gifts*
 Stacey Szewczyk, *Global Conservation*

Development Associates

Felicia Hamerman, *Campaign Relations*
 Ken Shallenberg, *Foundation Relations*

Development Assistants

Erin Archuleta, *Katherine Cronin,*

Global Conservation

Rebekah Grote, *Information Systems*
 Ann Phelan, *Major Gifts*
 Mary Ann Spadacini, *Patrons Program*
 Katia Suero, *Special Events*
 Mary Ann Venticinque-Malkin
Development Operations

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 Kathleen Allard, *Assistant Director, Membership Services*
 Thomas Traegler, *Manager, Site Sales*
 Venus Ramos, *Supervisor, Site Sales, Bronx Zoo*
 Cynthia Gonzalez, *Assistant Supervisor, Site Sales, Central Park Zoo*
 Kendra Whitmore, *Assistant Supervisor, Site Sales, Bronx Zoo*
 Meredith Buono, *Assistant Manager, Membership Services*
 Laura Lauria, *Assistant Manager, Membership Programs*
 Cynthia Alleyne, *Coordinator, Membership Services*
 Lincoln O'Brien, *Coordinator, Membership Communications*
 Dorothy Moura, *Assistant Coordinator, Membership Services*
 Laura Alemany, *Wanda Moore, Dianna Russell, Wendy Scott, Membership Services Assistants*

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 Maggie Byrne, *Administrative Assistant/Coordinator*
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 Marla Krauss, *Associate Manager, NOAA Partnership*

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 John Delaney, *Manager, Conservation Communications*
 Linda Corcoran, *Assistant Director, NYC Facilities*
 Alison Reiser, *Associate Manager, Bronx Zoo*
 Kate McIntyre, *Mary Record, Associate Managers, Public Affairs, Central Park Zoo*
 Fran Hackett, *Associate Manager, Communications, New York Aquarium*

Publications, Wildlife Conservation

Deborah Behler, *Editor-in-Chief*
 Nancy Simmons, *Senior Editor*
 Jennifer Shalant, *Web Writer*
 Carol Burke, *Editorial Manager*

EVENT MARKETING

Rachel Libretti, *Director*
 Anthony Petrone, *Carlos Rosado,*



New York Aquarium and Wildlife Health Sciences staff examine and prepare a beluga whale for transport on breeding loan to the new Georgia Aquarium in Atlanta.

Associate Managers

Diana Blackwell, *Events Coordinator*
 Susann Holloway, *Manager, Public Affairs, New York Aquarium*
 Kenyell Smalls, *Assistant Manager, Public Events, New York Aquarium*
 Alicia Sells, *Assistant Manager, Public Affairs, Central Park Zoo*
 Lillian Valentin, *Assistant Manager, Events, Central Park Zoo*

GOVERNMENT AND COMMUNITY AFFAIRS

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 Sara Marinello, *Assistant Director, Government Affairs*
 Rosemary DeLuca, *Manager, City & State Relations*
 Adriana Catlett, *Associate*

Washington Office

Kelly Keenan-Aylward, *Manager, Federal Affairs*
 Monique Danziger, *Associate, Federal Affairs*

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 Samantha Conlan, *Manager, Sponsorship*
 Diana Warren, *Account Manager*
 Rhonda Lewis-Warren, *Circulation Manager*

Group Sales

Margaret Price, *Assistant Director*
 Nicole Nell Joye, *Associate Manager, Group Sales*
 Venus Ramos, *Assistant Manager, Group Sales*

Marisol Gabriel, *Sales Representative*
 Noelia Cruz, *Eliza Lazo, Customer Representatives*

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Thomas Veltre, *Manager, Media Services*
 Luke Groskin, *Production Coordinator*
 Julie Larsen Maher, *Manager, Photographic Services*
 Suzanne Bolduc, *Production Coordinator, Photographic Services*
 Marjorie Federici, *Manager, Online Services*
 Jose Serrano, *Associate Manager, Online Services*
 Joshua Krause, *Art Director*
 Marisa Hodges, *Graphic Designer*

TV & MEDIA

Julia Mair, *Vice President*
 Stephen Fairchild, *Senior Producer*
 Natalie Cash, *Development Manager*
 Brenda Harris, *Departmental Assistant*

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W. B. McKeown, *Senior Vice President and General Counsel*
 Evelyn J. Junge, *Associate General Counsel*
 Rodolfo Aráuz, *Elizabeth Donovan, Assistant General Counsels*
 Maria Elena Urriste, *International Legal Advisor*
 Adriane Maisell, *Manager, Legal Services*
 Scott Wight, *Administrative Assistant*

staff publications

Publications by WCS Staff and Associates

This list includes less than one third of the publications by WCS staff and grant recipients from the past year. Find more complete lists at the Bronx Zoo Library and at individual program pages at wcs.org.

BEHAVIOR, ETHOLOGY, AND BEHAVIORAL ECOLOGY

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nesian Borneo. Bogor, Indonesia: CIFOR.

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CONSERVATION BIOLOGY

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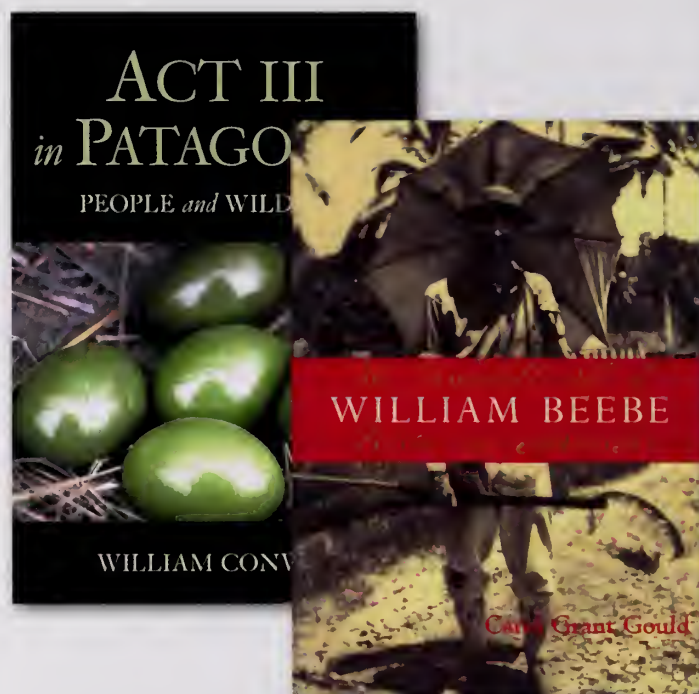
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awards, facts, and credits

AWARDS

WCS received the year's largest National Leadership Grant from the Institute of Library and Museum Services (ILMS) to work with research evaluators from the American Zoo and Aquarium Association (AZA), as well as experts in market forecasting and metrics development, to develop an assessment tool that will enhance the understanding of how the general public values visits to zoos and aquariums.

The Bronx Zoo's Tiger Mountain received the 2004 AZA Best New Exhibit Award.

The New York Aquarium's Education Department received the 2005 Coastal America Partnership Award for its habitat restoration program "Project Creek."

Corneille E.N. Ewango received the prestigious Goldman Environmental Prize 2005. A staff member of the Congolese Institute for the Conservation of Nature and WCS's Democratic Republic of Congo Program, Ewango helped lead the effort to protect and preserve the Okapi Faunal Reserve through nearly a decade of civil war.

Michel Masozera, country director for WCS's Rwanda Program, won the National Geographic Society/Buffett Award for Leadership in African Conservation.

Avecita Chicchon, director of the WCS Latin America and Caribbean Program, was awarded an Honorary Doctorate in Biology by the Universidad Nacional de la Amazonia Peruana in Iquitos, Peru, for her contributions to the field of conservation.

Andres Novaro was awarded The Whitley Award presented by HRH The Princess Royal, the United Kingdom's top conservation prize outstanding work by conservation leaders around the world fighting to safeguard the planet's resources and wildlife.

Danielle dos Santos Lima was awarded the Robin Best Prize of the Society for Marine Mammalogy in the graduate student category for her work with manatee research at the Aquatic Mammal Center in northeastern Brazil.

Elizabeth Bennett, director of the WCS Hunting and Wildlife Trade Program, was appointed by Queen Elizabeth II in the New Year's Honours List as a Member of The Most Excellent Order of the British Empire (MBE) for her services to wildlife conservation in Malaysia.

Alan Rabinowitz was the first recipient of the newly established George B. Rabb Conservation Award, given by the Chicago Zoological Society.

George Schaller received the Aldo Leopold Conservation Award for his outstanding contributions to the conservation of mammals and mammalian biodiversity from the American Society of Mammologists.

Craig Groves, Greater Yellowstone Program, was awarded the The Wildlife Society's Professional Wildlifer Award (Idaho Chapter), recognizing outstanding professional contribution and promoting public understanding of significant wildlife management accomplishments in Idaho. This award was for initiating conservation and scientific work on U.S. Forest Service and State sensitive species, specifically the harlequin duck and the wolverine.

OPERATING EXPENSES

Bronx Zoo	\$45,283,000
New York Aquarium	11,088,000
City Zoos	13,755,000
International Conservation	48,241,000
Wildlife Conservation Magazine	1,351,000
Lower Bronx River	
Habitat Conservation	953,000

Total Program Expenses \$120,671,000

Visitor Services 10,964,000

Supporting Services 17,761,000

Total
Wildlife Conservation Society \$149,396,000

ATTENDANCE AT WCS FACILITIES

Bronx Zoo	1,932,638
Congo Gorilla Forest	625,843
Children's Zoo	333,477
Zoo Shuttle	174,996
Bengali Express	348,197
Skyfari	399,152
Butterfly Garden	237,385

New York Aquarium 726,997

Central Park Zoo 939,695

Queens Zoo 208,389

Prospect Park Zoo 220,835

Total WCS Attendance 4,028,554

MEMBERSHIP AND MAGAZINE

Members 79,663

Wildlife Conservation circulation 111,427

ANIMAL CENSUS

Bronx Zoo

Mammals	2,249 animals of 134 species
	1,051 births
Birds	946 animals of 191 species
	57 hatchings
Reptile and Amphibians	817 animals of 145 species
	91 births and hatchings

Special Animal Exhibits, Bronx Zoo

Mammals	220 animals of 39 species
	26 births
Birds	164 animals of 39 species
	4 hatchings
Reptile and Amphibians	186 animals of 38 species

New York Aquarium

Mammals	22 animals of 7 species
Birds	20 animals of 1 species
Reptile and Amphibians	34 animals of 8 species



Fish	164 animals of 36 species
	11 hatchings
Reptile and Amphibians	170 animals of 7 species
	26 births and hatchings
Invertebrates	9,800 animals of 146 species
	416 cultured

St. Catherine's Wildlife Survival Center

Mammals	147 animals of 16 species
	42 births
Birds	

Central Park Zoo

Mammals	668 animals of 23 species
	10 births
Birds	282 birds of 58 species
	49 hatchings

Reptiles and Amphibians
703 of 42 species

Queens Zoo

Mammals	82 animals of 23 species
	4 births
Birds	171 animals of 33 species
	1 hatching
Reptiles	46 animals of 8 species

Prospect Park Zoo

Mammals	94 animals of 21 species
	14 births
Birds	59 animals of 29 species
	9 hatchings
Reptiles and Amphibians	205 animals of 48 species
	16 births and hatchings

Total WCS Census

120,844 animals of 1,344 species

EDITOR: Deborah A. Behler
ART DIRECTOR: Joshua Krause
STAFF PHOTOGRAPHER: Julie Larsen Maher
CONTRIBUTORS: Nancy Simmons, Corey Binns
PREPRESS: Four Lakes Colorgraphics
PRINTER: Monroe Litho

PAPER: Cover printed on Domtar 12 point Cornwall C2S, an elemental chlorine-free, acid-free paper. Interior printed on 80# Luna Silk Text, Elemental chlorine-free, lignin free and acid-free paper. Both meet the standards of the Forest Stewardship Council (FSC)



PHOTO CREDITS: front cover: Steve Zack; back cover: WCS; inside front cover: Julie Larsen Maher/WCS; page 3: Julie Larsen Maher/WCS; page 4: Julie Larsen Maher/WCS; page 5: Tim Davenport; pages 6: Dennis DeMello/WCS; page 8: Julie Larsen Maher/WCS; page 9: Julie Larsen Maher/WCS; pages 10-11: Julie Larsen Maher/WCS; page 12: Julie Larsen Maher/WCS; pages 14-15: Julie Larsen Maher/WCS (2); page 16: Julie Larsen Maher/WCS; page 17: Julie Larsen Maher/WCS, William Beehe; page 18: Julie Larsen Maher/WCS; page 19: Suzanne Bolduc/WCS; pages 20-21: Julie Larsen Maher/WCS; page 22: Julie Larsen Maher/WCS; page 23: Julie Larsen Maher/WCS; pages 24-25: Beth and Andrew Coates, Julie Larsen Maher/WCS; pages 26-27: Julie Larsen Maher/WCS; pages 28-29: Julie Larsen Maher/WCS; page 30-31: Julie Larsen Maher/WCS; page 32: Merryl Kafka; page 33: Nalini Mohan; page 34: Ilyssa Gillman, Mary Schwalm; page 35: Julie Larsen Maher/WCS; pages 36-37: Luke Hunter; page 38: Julie Larsen Maher/WCS; page 40: Anthony J. Lynam; page 41: Goldman Environmental Prize; page 42: Graham Harris; page 43: Sergio Hoare; page 45: L. Karasin (3), Julie Larsen Maher/WCS; page 46: Kent Redford; page 48: Julie Larsen Maher/WCS; page 49: Dennis DeMello/WCS; page 50: George Schaller; page 53: Andrés Novaro; page 54: Tim McClanahan; page 55: Amy Vedder; page 57: Julie Larsen Maher/WCS; page 59: Julie Larsen Maher/WCS (2); page 60: Julie Larsen Maher/WCS; page 61: Julie Larsen Maher/WCS (3), Dennis DeMello, John Delaney, Suzanne Bolduc/WCS; pages 62-63: Julie Larsen Maher/WCS; page 66: Mary Hilliard, Patrick McMullan Co., Inc. (6); page 67: Mary Hilliard, Patrick McMullan Co., Inc. (3); page 68: Suzanne Bolduc/WCS, Roger LeMoine (4); page 69: Suzanne Bolduc/WCS (3), Luke Groskin/WCS (2); page 70: Mary Hilliard (2), Matt Leslie, Julie Larsen Maher/WCS (2); page 71: Suzanne Bolduc/WCS, Julie Larsen Maher/WCS (3); page 72: Julie Larsen Maher/WCS; page 74: Julie Larsen Maher/WCS; page 75: Suzanne Bolduc/WCS; page 77: Julie Larsen Maher/WCS; page 78: Luke Groskin/WCS; page 79: Michelle Kahn; page 81: Suzanne Bolduc/WCS; page 82: Suzanne Bolduc/WCS; page 85: Julie Larsen Maher/WCS; page 86: Julie Larsen Maher/WCS; page 88: Julie Larsen Maher/WCS; page 93: Julie Larsen Maher/WCS; page 96: Julie Larsen Maher/WCS; inside back cover: Kent Redford, Julie Larsen Maher/WCS

Above: The Karukinka Advisory Council and WCS staff visit the WCS property on Tierra del Fuego, a gift from the Goldman Sachs Charitable Fund. Below: Senior Veterinarian Paul Calle makes a house call.



RECOMMENDED FORM OF BEQUEST

The Trustees of the Wildlife Conservation Society recommend that for estate planning purposes, members and friends consider the following language for use in their wills: "To the Wildlife Conservation Society, a not-for-profit, tax-exempt organization incorporated in the State of New York in 1895, having as its principal address the Wildlife Conservation Society, 2300 Southern Boulevard, Bronx, New York 10460, I hereby give and bequeath _____ for the Society's general purposes."

In order to help WCS avoid future administration costs, it is suggested that the following paragraph be added to any restrictions that are imposed on a bequest: "If at some future time, in the judgment of the Trustees of the Wildlife Conservation Society, it is no longer practical to use the income or principal of this bequest for the purposes intended, the Trustees have the right to use the income or principal for whatever purposes they deem necessary and most closely in accord with the intent described herein."

If you wish to discuss the language of your bequest with a member of the WCS staff, please be in touch with the Planned Giving Office at 718-220-5090.

For information on how you can support the Wildlife Conservation Society, please call our Development Department at 718-220-5090. A copy of this annual report may be obtained by writing to the Office of the Chairman, Wildlife Conservation Society, 2300 Southern Boulevard, Bronx, New York 10460. In addition, a copy of WCS's annual filing with the Charities Bureau of the Office of the New York State Attorney General may be obtained by writing to the Charities Bureau, New York State Attorney General's Office, 3rd Floor, 120 Broadway, New York, New York 10271.

FIRST ANNUAL REPORT
OF THE
NEW YORK
ZOOLOGICAL SOCIETY
CHARTERED IN 1894

OBJECTS OF THE SOCIETY
A PUBLIC ZOOLOGICAL PARK
THE PRESERVATION OF OUR NATIVE ANIMALS
THE PROMOTION OF ZOOLOGY



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